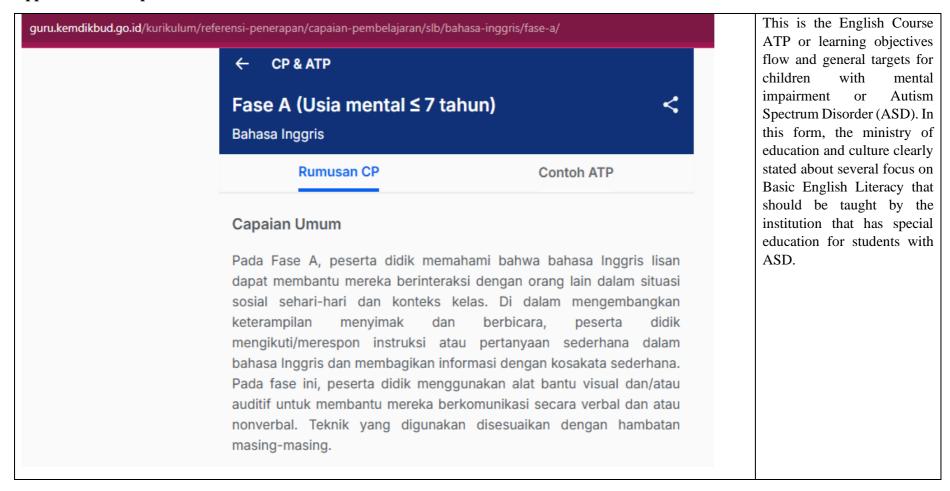
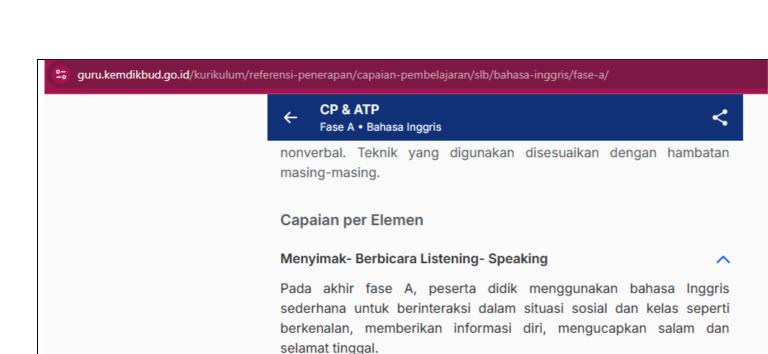
APPENDICES

Appendix 1 The Special Education Curriculum for Students with ASD based on Indonesian Merdeka Curriculum





In Phase A which is for students who are in the first grade and seven years old, it is intended to be able to use basic English to interact in social and classroom situations such as introducing themselves, sharing personal information, greetings and bidding farewell in the first element of Speaking. Meanwhile, reading and writing are not becoming the focus of this phase.

By the end of Phase A students use basic English to interact in social and classroom situations such as introducing themselves, sharing personal information, greeting and bidding farewell.

Membaca- Memirsa Reading- Viewing

Belum menjadi fokus pembelajaran pada fase ini

Menulis- Mempresentasikan Writing- Presenting

Belum menjadi fokus pembelajaran pada fase ini



Elemen Capaian Pembelajaran	Tujuan Pembelajaran	Alur Tujuan Pembelajaran	Here the learning target, learning objectives and
Pada akhir fase A, peserta didil menggunakan Bahasa Inggris sederhana untuk berinteraksi dalam situasi sosial dan kelas seperti berkenalan, memberika informasi diri, mengucapkan salam dan selamat tinggal. By the end of Phase A, students use basic English to interact in social and classroom situations such as introducing themselves sharing personal information, greeting and bidding farewell.	untuk berinteraksi dalam situasi sosial dan kelas seperti berkenalan • Menggunakan Bahasa Inggris sederhana untuk berinteraksi dalam situasi sosial dan kelas seperti mengucapkan salam • Menggunakan Bahasa Inggris sederhana untuk berintertaksi dalam situasi sosial dan kelas seperti memberikan informasi diri • Menggunakan Bahasa Inggris sederhana	 Menggunakan Bahasa Inggris sederhana untuk berintertaksi dalam situasi sosial dan kelas seperti berkenalan Menggunakan Bahasa Inggris sederhana untuk berintertaksi dalam situasi sosial dan kelas seperti memberikan informasi Menggunakan Bahasa Inggris sederhana untuk berintertaksi dalam situasi sosial dan kelas seperti mengucapkan salam Menggunakan Bahasa Inggris sederhana untuk berintertaksi dalam situasi sosial dan kelas seperti mengucapkan salam Menggunakan Bahasa Inggris sederhana untuk berintertaksi dalam situasi sosial dan kelas seperti selamat tinggal 	learning objectives flow are explained more detail.

DNDIKSRP



Fase B (Usia mental ± 8 tahun)

Bahasa Inggris

Rumusan CP

Contoh ATP

Capaian Umum

Pada Fase B, peserta didik memahami bahwa bahasa Inggris lisan dapat membantu mereka berinteraksi dengan orang lain dalam situasi sosial sehari-hari dan konteks kelas. Di dalam mengembangkan berbicara. keterampilan menyimak peserta mengikuti/merespons instruksi atau pertanyaan sederhana dalam bahasa Inggris dan membagikan informasi dengan kosakata sederhana. Pada fase ini, peserta didik menggunakan alat bantu visual dan/atau auditif untuk membantu mereka berkomunikasi secara verbal dan nonverbal. (teknik disesuaikan dengan ketunaan masing-masing). Peserta didik memahami bahwa kegiatan membaca merupakan kegiatan individu maupun berkelompok yang bisa dilakukan untuk memberikan kesenangan (reading for pleasure). Mereka memahami bahwa gambar yang terdapat dalam buku yang dibacakan oleh guru atau gambar yang peserta didik amati memiliki arti. Mereka merespons secara lisan, visual, dan/atau komunikasi nonverbal terhadap teks sederhana yang dibacakan atau gambar yang dilihatnya.

This is the English Course ATP or learning objectives flow and general targets for children with mental impairment Autism or Spectrum Disorder (ASD). In this form, the ministry of education and culture clearly stated about several focus on Basic English Literacy that should be taught by the institution that has special education for students with ASD in phase B.



kata, frasa atau kalimat sederhana.

By the end of Phase B, students respond to simple instructions with action-related language or answer to short, simple questions with simple words, phrases or sentences.

Membaca- Memirsa Reading- Viewing

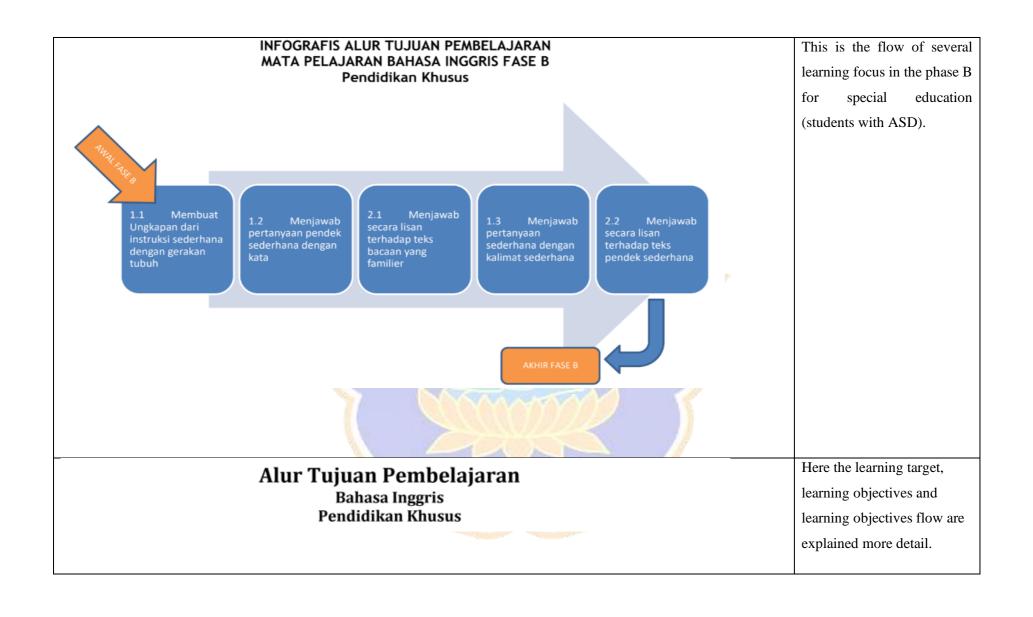
Pada akhir fase B, peserta didik merespons secara lisan terhadap teks pendek sederhana dan familier, berbentuk teks tulis yang dibacakan oleh guru.

By the end of Phase B, students respond orally to short, simple, familiar texts in the form of print texts read by teachers.

Menulis- Mempresentasikan Writing- Presenting

Belum menjadi fokus pembelajaran pada fase ini.

In phase B which is for students who are in the second grade and having eight years old ages, it is destined to be able to respond to simple instructions with action-related language or answer to short, simple questions with simple words, phrases or sentences in the element of speaking. Then in the element of reading it is destined to respond orally to short, simple, familiar texts in the form of print texts read teachers. However. writing is not becoming the focus of this phase.



Fase	: B			
ELEMEN DAN CAPAIAN PE	MBELAJARAN		TUJUAN PEMBELAJARAN	ALUR TUJUAN PEMBELAJARAN LINTAS ELEMEN
1. Menyimak-Berbicara Speaking Pada akhir fase B, pmerespon instruksi dengan gerakan to menjawab pertanya sederhana dengan kalimat sederhana. By the end of Phase respond to simple instruction-related language or answer to questions with sin phrases or sentences.	sederhana tubuh atau nan pendek ta, frasa atau e B, students tructions with	1.2. 1.3.	Membuat ungkapan dari instruksi sederhana dengan gerakan tubuh Menjawab pertanyaan pendek sederhana dengan kata Menjawab pertanyaan sederhana dengan kalimat sederhana	sederhana dengan kata

DADIKSH

Appendix 2. Individual Education Programs Validation

Name Kadek Sintya Dewi

NIM 2239041005

Topic Digital Interactive Media Development

Title Developing Digital Interactive Media to Teach Basic Literacy and Communication in

English As A Foreign Language for Young Learners with Autism Spectrum Disorder

(ASD)

Application Literacy Quest

Validator Sharifah bt Salleh (Principal and Centre Manager

Institution IDEAS AUTISM CENTRE

Individual Education Programs (IEPs) or Program Pendidikan Individu (PPI)

After analysing the Merdeka Curriculum special education for students with ASD, then the analysis was continued by analysing the Individual Education Programs (IEPs) used in the private elementary school of North Bali. There are several important points explained below covering; basic English literacy skills, themes, materials and activities. This information was used to designed appropriate elements of digital interactive media that can suit students with ASD's planned learning programs and academic level.

Table 1 Individual Education Programs (IEPs) or Program Pendidikan Individu (PPI)

Focused Lesson	Focused Lesson	Focused Lesson	Focused Lesson	Focused Lesson		ludg alua	
		_			R	Ι	N
English Class	English Class	English Class	English Class	English Class			
Mengikuti kegiatan English berupa games, dancing, and singing.	Mengikuti kegiatan English berupa games, dancing, and singing.	Mengikuti kegiatan English berupa games, dancing, and singing.	Mengikuti kegiatan English berupa games, dancing, and singing.	Mengikuti kegiatan English berupa games, dancing, and singing.	√		
Tematik Diriku - Mendengarkan social story yang dibacakan oleh guru dengan tema diriku.	Tematik Keluargaku - Mendengarkan social story yang dibacakan oleh guru dengan tema keluargaku. - Menyiapkan alat	Tematik Hobiku - Mendengarkan social story yang dibacakan oleh guru dengan tema hobiku.	Tematik Rumahku - Mendengarkan social story yang dibacakan oleh guru dengan tema rumahku.	Tematik Kegiatanku Sehari-hari - Mendengarkan social story yang dibacakan oleh guru dengan tema	√ √		
 Menyiapkan alat tulis, seperti pensil dan penghapus. Membaca teks yang diberikan 	tulis, seperti pensil dan penghapus. - Membaca teks yang diberikan - Menjawab	 Menyiapkan alat tulis, seperti pensil dan penghapus. Membaca teks yang diberikan 	- Menyiapkan alat tulis, seperti pensil dan penghapus Membaca teks yang diberikan	kegiatanku sehari-hari Menyiapkan alat tulis, seperti pensil dan penghapus.	V		
- Menjawab pertanyaan	pertanyaan sederhana yang tertera di soal.	- Menjawab pertanyaan	- Menjawab pertanyaan	 Membaca teks yang diberikan Menjawab pertanyaan 	√		

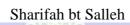
sederhana yang tertera di soal. - Mengumpulkan worksheet di box "Finished".	- Mengumpulkan worksheet di box "Finished".	sederhana yang tertera di soal. - Mengumpulkan worksheet di box "Finished".	sederhana yang tertera di soal. - Mengumpulkan worksheet di box "Finished".	sederhana yang tertera di soal. - Mengumpulkan worksheet di box "Finished".	√ √	
Language and	Language and	Language and	Language and	Language and		
Communication	Communication	Communication	Communication	Communication		
Statement of greeting in	Statement of greeting in	Statement of greeting in	Statement of greeting in	Statement of greeting in		
Students Language	Students Language	Students Language	Students Language	Students Language		
In the classroom:	In the classroom:	In the classroom:	In the classroom:	In the classroom:		
- Merespon	- Merespon	- Merespon	- Merespon	- Merespon		
instruksi saat	instruksi saat	instruksi saat	instruksi saat	instruksi saat		
melakukan	melakukan	m <mark>elakukan</mark>	melakukan	melakukan		
absensi	absensi	absensi	absensi	absensi		
- Mampu	- Mampu	- Mampu	- Mampu	- Mampu		
memberikan	memberikan	memberikan	memberikan	memberikan		
respon saat ditanya kabar	respon saat ditanya kabar	respon saat ditanya kabar	respon saat ditanya kabar	respon saat ditanya kabar		
In the playground:	In the playground:	In the playground:	In the playground:	In the playground:		

- Memberikan salam kepada guru yang sedang supervisi dan kepada teman	- Memberikan salam kepada guru yang sedang supervisi dan kepada teman	- Memberikan salam kepada guru yang sedang supervisi dan kepada teman	- Memberikan salam kepada guru yang sedang supervisi dan kepada teman	- Memberikan salam kepada guru yang sedang supervisi dan kepada teman	√	
In the classroom:	In the classroom:	In the classroom:	In the classroom:	In the classroom:		
Mampu memahami teks yang diberikan pada worksheet tentang diriku	Mampu memahami teks yang diberikan pada worksheet tentang keluargaku	Mampu memahami teks yang diberikan pada worksheet tentang hobiku	Mampu memahami teks yang diberikan pada worksheet Mampu menjawab	Mampu memahami teks yang diberikan pada worksheet Mampu menjawab	√	
Mampu menjawab pertanyaan 5W + 1 H yang tertera di worksheet tentang diriku.	Mampu menjawab pertanyaan 5W + 1 H yang tertera di worksheet tentang keluargaku.	2. Mampu menjawab pertanyaan 5W + 1 H yang tertera di worksheet tentang hobiku.	pertanyaan 5W + 1 H yang tertera di worksheet tentang rumahku.	pertanyaan 5W + 1 H yang tertera di worksheet tentang kegiatanku sehari- hari.	√	
Basic English Literacy Skills	Basic English Literacy Skills	Basic English Literacy Skills	Basic English Literacy Skills	Basic English Literacy Skills		
BERKOMUNIKASI 1. Mampu menyapa teman dan guru	1. Mampu menyapa teman dan guru	Mampu menyapa teman dan guru	BERKOMUNIKASI 1. Mampu menyapa teman dan guru	Mampu menyapa teman dan guru	V	

Mampu merespon pertanyaan sederhana	Mampu merespon pertanyaan sederhana	Mampu merespon pertanyaan sederhana	Mampu merespon pertanyaan sederhana	Mampu merespon pertanyaan sederhana	V
3. Mampu mengkomunikasikan apa yang dirasa/diinginkan	3. Mampu mengkomunikasikan apa yang dirasa/diinginkan MENULIS	3. Mampu mengkomunikasikan apa yang dirasa/diinginkan MENULIS	3. Mampu mengkomunikasikan apa yang dirasa/diinginkan	3. Mampu mengkomunikasikan apa yang dirasa/diinginkan	√
Menulis kata sebagai jawaban pada worksheet tentang diriku yang diberikan dengan baik dan tepat.	Menulis kata sebagai jawaban pada worksheet tentang keluargaku yang diberikan dengan baik dan tepat.	Menulis kata sebagai jawaban pada worksheet tetang hobiku yang diberikan dengan baik dan tepat.	Menulis kata sebagai jawaban pada worksheet tentang rumahku yang diberikan dengan baik dan tepat.	Menulis kata sebagai jawaban pada worksheet tentang kegiatanku seharihari yang diberikan dengan baik dan tepat.	√
2. Melakukan kegiatan spelling kata yang berhubungan dengan tema diriku	Melakukan kegiatan spelling kata yang berhubungan dengan tema keluargaku	2. Melakukan kegiatan spelling kata yang berhubungan dengan tema hobiku	2. Melakukan kegiatan spelling kata yang berhubungan dengan tema rumahku	2. Melakukan kegiatan spelling kata yang berhubungan dengan tema diriku	√
MEMBACA	MEMBACA	MEMBACA	MEMBACA	MEMBACA	
Membaca kata kata sederhana tentang diriku	1 . Membaca kata kata sederhana tentang keluargaku	Membaca kata kata sederhana tentang hobiku	1 . Membaca kata kata sederhana tentang rumahku	1 . Membaca kata kata sederhana	√
	Membaca kata dan kalimat di buku cerita		2. Membaca kata dan kalimat di buku cerita		

2. Membaca kata dan		2. Membaca kata dan		2. Membaca kata dan	√
kalimat di buku cerita		kalimat di buku cerita		kalimat di buku cerita	
	BERBICARA		BERBICARA		
BERBICARA 1.Mampu mengucapkan kata sederhana yang terdiri dari 3-4 suku kata dalam Bahasa Indonesia tentang diriku 2. Mampu mengucapkan kata sederhana dalam Bahasa Inggris tentang diriku	1.Mampu mengucapkan kata sederhana yang terdiri dari 3-4 suku kata dalam Bahasa Indonesia tentang keluargaku 2. Mampu mengucapkan kata sederhana dalam Bahasa Inggris tentang keluargaku MENDENGARKAN 1. Mampu	kata sederhana yang terdiri dari 3-4 suku kata dalam Bahasa Indonesia tentang hobiku. 2. Mampu mengucapkan kata sederhana dalam Bahasa Inggris tentang rumahku 2. Mampu mengucapkan kata sederhana dalam Bahasa Inggris tentang rumahku MENDENCAPKAN	1.Mampu mengucapkan kata sederhana yang terdiri dari 3-4 suku kata dalam Bahasa Indonesia tentang kegiatanku seharihari 2. Mampu mengucapkan kata sederhana dalam	√ √	
MENDENGARKAN 1 . Mampu mendengarkan instruksi dari guru dengan baik dan melakukannya	mendengarkan instruksi dari guru dengan baik dan melakukannya	MENDENGARKAN 1. Mampu mendengarkan instruksi dari guru dengan baik dan melakukannya	1. Mampu mendengarkan instruksi dari guru dengan baik dan melakukannya	sehari-hari MENDENGARKAN 1 . Mampu mendengarkan instruksi dari guru dengan baik dan melakukannya	√

Malaysia, 16 July 2023
Expert 1
Ideas Autism Centre Principal and Centre Manager



Name Kadek Sintya Dewi

NIM 2239041005

Topic Digital Interactive Media Development

Title Developing Digital Interactive Media to Teach Basic Literacy and Communication in

English As A Foreign Language for Young Learners with Autism Spectrum Disorder

(ASD)

Application Literacy Quest

Validator Dr. Sunitha Sivakumaran (Principal and Centre Manager)

Institution Taarana School, Pusat Pendidikan Khas Sinaran

Table 1 Individual Education Programs (IEPs) or Program Pendidikan Individu (PPI)

Focused Lesson	Focused Lesson	Focused Lesson	Focused Lesson	Focused Lesson	Judg Evaluat		
					R	Ι	N
English Class	English Class	English Class	English Class	English Class			
Mengikuti kegiatan English berupa games, dancing, and singing.	Mengikuti kegiatan English berupa <i>games</i> , <i>dancing</i> , <i>and singing</i> .	Mengikuti kegiatan English berupa games, dancing, and singing.	Mengikuti kegiatan English berupa games, dancing, and singing.	Mengikuti kegiatan English berupa <i>games</i> , dancing, and singing.	√		

Statement of greeting in	Statement of greeting in	Statement of greeting in	Statement of greeting in	Statement of greeting in	√
Students Language	Students Language	Students Language	Students Language	Students Language	
In the classroom:	In the classroom:	In the classroom:	In the classroom:	In the classroom:	
- Merespon instruksi saat melakukan absensi	- Merespon instruksi saat melakukan absensi	- Merespon instruksi saat melakukan absensi	- Merespon instruksi saat melakukan absensi	- Merespon instruksi saat melakukan absensi	√
- Mampu memberikan respon saat ditanya kabar	- Mampu memberikan respon sa <mark>at</mark> ditanya k <mark>a</mark> bar	- Mampu memberikan respon saat ditanya kabar	- Mampu memberikan respon saat ditanya kabar	- Mampu memberikan respon saat ditanya kabar	√
In the playground:	In the playground:	In the playground:	In the playground:	In the playground:	
- Memberikan salam kepada guru yang sedang supervisi dan kepada teman In the classroom:	- Memberikan salam kepada guru yang sedang supervisi dan kepada teman In the classroom:	- Memberikan salam kepada guru yang sedang supervisi dan kepada teman In the classroom:	- Memberikan salam kepada guru yang sedang supervisi dan kepada teman In the classroom:	- Memberikan salam kepada guru yang sedang supervisi dan kepada teman In the classroom:	√
Mampu memahami	Mampu memahami	Mampu memahami			
teks yang diberikan	teks yang diberikan	teks yang diberikan			

pada worksheet tentang diriku 2. Mampu menjawab pertanyaan 5W + 1 H yang tertera di worksheet tentang diriku.	pada worksheet tentang keluargaku 2. Mampu menjawab pertanyaan 5W + 1 H yang tertera di worksheet tentang keluargaku.	pada worksheet tentang hobiku 2. Mampu menjawab pertanyaan 5W + 1 H yang tertera di worksheet tentang hobiku.	 Mampu memahami teks yang diberikan pada worksheet Mampu menjawab pertanyaan 5W + 1 H yang tertera di worksheet tentang rumahku. 	 Mampu memahami teks yang diberikan pada worksheet Mampu menjawab pertanyaan 5W + 1 H yang tertera di worksheet tentang kegiatanku sehari- hari. 	\ \ \	
Basic English Literacy Skills	Basic English Literacy Skills	Basic English Literacy Skills	Basic English Literacy Skills	Basic English Literacy Skills		
SKIIIS	SKIIIS	SKIIIS	SKIIIS	SKIIIS		
BERKOMUNIKASI	BERKOMUNIKASI	BERKOMUNIKASI	BERKOMUNIKASI	BERKOMUNIKASI		
Mampu menyapa teman dan guru	 Mampu menyapa teman dan guru 	Mampu menyapa teman dan guru	Mampu menyapa teman dan guru	Mampu menyapa teman dan guru	√	
Mampu merespon pertanyaan sederhana	Mampu merespon pertanyaan sederhana	Mampu merespon pertanyaan sederhana	Mampu merespon pertanyaan sederhana	2. Mampu merespon pertanyaan sederhana	√	
3. Mampu mengkomunikasikan apa yang dirasa/diinginkan	3. Mampu mengkomunikasikan apa yang dirasa/diinginkan	3. Mampu mengkomunikasikan apa yang dirasa/diinginkan	3. Mampu mengkomunikasikan apa yang dirasa/diinginkan	3. Mampu mengkomunikasikan apa yang dirasa/diinginkan	√	
MENULIS	MENULIS	MENULIS	MENULIS	MENULIS		
Menulis kata sebagai jawaban pada worksheet tentang	l. Menulis kata sebagai jawaban pada worksheet tentang	l. Menulis kata sebagai jawaban pada worksheet tetang	l. Menulis kata sebagai jawaban pada worksheet tentang	l. Menulis kata sebagai jawaban pada worksheet tentang	√	

diriku yang diberikan dengan baik dan tepat.	keluargaku yang diberikan dengan baik dan tepat.	hobiku yang diberikan dengan baik dan tepat.	rumahku yang diberikan dengan baik dan tepat.	kegiatanku sehari- hari yang diberikan dengan baik dan tepat.	
2. Melakukan kegiatan spelling kata yang berhubungan dengan tema diriku	Melakukan kegiatan spelling kata yang berhubungan dengan tema keluargaku	2. Melakukan kegiatan spelling kata yang berhubungan dengan tema hobiku	2. Melakukan kegiatan spelling kata yang berhubungan dengan tema rumahku	2. Melakukan kegiatan spelling kata yang berhubungan dengan tema diriku	√
MEMBACA		MEMBACA	100		
1 . Membaca kata kata	MEMBACA	1. Membaca kata kata	MEMBACA	MEMBACA	
sederhana tentang diriku	1 . Membaca kata kata sederhana tentang keluargaku	sederhana tentang hobiku 2. Membaca kata dan	l . Membaca kata kata sederhana tentang rumahku	1 . Membaca kata kata sederhana	√
2. Membaca kata dan kalimat di buku cerita	2. Membaca kata <mark>d</mark> an kalimat di buku cerita	kalimat di buku cerita	2. Membaca kata dan kalimat di buku cerita	2. Membaca kata dan kalimat di buku cerita	√
	((
BERBICARA	BERBICARA	BERBICARA 1.Mampu mengucapkan	BERBICARA	BERBICARA	
1.Mampu mengucapkan kata sederhana yang terdiri dari 3-4 suku kata dalam Bahasa Indonesia tentang diriku	1.Mampu mengucapkan kata sederhana yang terdiri dari 3-4 suku kata dalam Bahasa Indonesia tentang keluargaku	kata sederhana yang terdiri dari 3-4 suku kata dalam Bahasa Indonesia tentang hobiku.	1.Mampu mengucapkan kata sederhana yang terdiri dari 3-4 suku kata dalam Bahasa Indonesia tentang rumahku	1.Mampu mengucapkan kata sederhana yang terdiri dari 3-4 suku kata dalam Bahasa Indonesia tentang	√

2. Mampu mengucapkan kata sederhana dalam Bahasa Inggris tentang diriku MENDENGARKAN 1. Mampu mendengarkan instruksi dari guru dengan baik dan melakukannya	2. Mampu mengucapkan kata sederhana dalam Bahasa Inggris tentang keluargaku MENDENGARKAN 1. Mampu mendengarkan instruksi dari guru dengan baik dan melakukannya	2. Mampu mengucapkan kata sederhana dalam Bahasa Inggris tentang hobiku MENDENGARKAN 1. Mampu mendengarkan instruksi dari guru dengan baik dan melakukannya	2. Mampu mengucapkan kata sederhana dalam Bahasa Inggris tentang rumahku MENDENGARKAN 1. Mampu mendengarkan instruksi dari guru dengan baik dan melakukannya	kegiatanku seharihari 2. Mampu mengucapkan kata sederhana dalam Bahasa Inggris tentang kegiatanku sehari-hari MENDENGARKAN 1. Mampu mendengarkan instruksi dari guru dengan baik dan melakukannya	√ √ 23	
		. 242		Total	23	

Malaysia, 16 July 2023 Expert 2 Taarana Principal

Dr. Sunitha Sivakumaran

Appendix 2.1. Validity Testing of IEPs

- 1) Individual Education Program Validation
- a. Cross Tabulation

		JUD	GE I
		Irrelevant	Relevant
JUDGE II	Irrelevant	A = 0	C = 0
	Relevant	B = 0	D = 23

b. Formula Calculation

Content Validity

$$\frac{21}{0+0+0+21} = \frac{23}{23} = 1$$

Appendix 3. Topic and Material Validation

Name Kadek Sintya Dewi

NIM 2239041005

Topic Digital Interactive Media Development

Title Developing Digital Interactive Media to Teach Basic Literacy and Communication in

English As A Foreign Language for Young Learners with Autism Spectrum Disorder

(ASD)

Application Literacy Quest

Validator Sharifah bt Salleh (Principal and Centre Manager

Institution IDEAS AUTISM CENTRE

Blue Print of Materials Needed as The Source of Digital Interactive Media Development

After analysing special education curriculum for students with ASD in phase A and phase B as well as the IEPs used in the private elementary school at North Bali, the researcher designed the blue print of materials needed as the source of digital interactive media development. The following table discusses learning objectives, topics, indicators, materials and activities that were generated to develop the digital interactive media called "Literacy Quest".

a. Theme 1 "My Body"

No	Learning	Topics	Indicators	Material	Activities	Numbers	Judge E	valuation
	Objectives					of Questions	Relevant	Irrelevant
	Reading English Vocabulary and simple sentence about My Body	My Body	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance.	Quiz (Objective Test with pictures as the options) • What is this? = Apakah ini? 1. Eyes = mata 2. Nose = hidung 3. Ears= telinga 4. Hair = rambut 5. Lips = bibir I have two eyes = Saya punya dua mata I have one nose = Saya punya satu hidung I have two ears = Saya punya dua telinga I have black hair = Saya punya rambut hitam I have one lips = Saya memiliki satu bibir • Match the picture with the word! 6. Eyes = a picture of eyes 7. Nose = a picture of nose 8. Ears= a picture of ears 9. Hair = a picture of	Pictures, audios, works based Objective Test and matching pictures with correct words of Body Parts.	10		

			Students are able to play and finish the quiz in the digital media	10. Lips = a picture of lips				
2	Writing English Vocabulary about My Body	My Body	Students are able to do the digital exercise by tracing every word correctly.	"Trace the words" activity 1. Eyes = mata 2. Nose = hidung 3. Ears= telinga 4. Hair = rambut 5. Lips = bibir	Tracing the words	5	V	
3	Speaking English Vocabulary and simple expression of greeting and telling about body condition.	My Body	Students are able to respond or tell their body condition and give greeting to others.	What happened dear? = Ada apa sayang? 1. My eyes hurt = Mata saya sakit 2. My nose is itchy = Hidung saya gatal 3. My ears hurt = Telinga saya sakit 4. My hair is wet = Rambut saya basah "Greeting and Parting": Good morning students! Good morning teacher!	Choosing on Good or Not Good Behavior. Practice the simple conversation.	5	V	

	Good morning mom!			
	Good bye mom!			
	Sit down please!			
	Good bye and take care!			
	Good bye mom!			
	Good bye teacher!			
	I miss you mom!			
	I miss you dear!			
	Crying			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Running			
	Playing			
Total Number It	ems	20	3	

b. Theme 2 "My Hobby"

No	Learning	Topics	Indicators	Material	V 1		Judge Evaluation		
	Objectives			Quiz of Questions		Relevant	Irrelevant		
1	Reading English Vocabulary and simple sentence	My Hobby	Students are able to read the words and simple	 Swimming = berenang Drawing = menggambar Singing = menyanyi Dancing = menari Playing = bermain 	Pictures, audios, works based Objective Test and	10	V		

	about My		sentences	My hobby is swimming.	matching			
	Hobby		in the quiz	My hobby is drawing.	pictures with			
			with audio	My hobby is singing.	correct words			
			assistance.	My hobby is dancing.	of hobbies.			
				My hobby is playing.				
			Students are able to match the words and the correct picture without audio assistance.	 6. Swimming = a picture of swimming kid. 7. Drawing = a picture of drawing kid. 8. Singing = a picture of singing kid. 9. Dancing = a picture of dancing kids. 10. Playing = a picture of playing kids. 	WGHIRGH			
			Students			- 1 B		
			are able to	, July	4			
			play and	VANAGAN	₹\/\	and the second		
			finish the			3		
			quiz in the			7.0		
			digital			J.		
			media	DN	(A)	7		
2	Writing	My	Students	1. Swimming = berenang	Tracing the	5	√	
	English	Hobby	are able to	2. Drawing = menggambar	words			
	Vocabulary		do the	3. Singing=bernyanyi				
	about My		digital	4. Dancing = menari				
	Hobby		exercise by	5. Playing = bermain				
			tracing					

			every word correctly.					
3	Speaking English Vocabulary and simple expression of asking and telling about hobbies.	My hobby	Students are able to asking and telling their hobbies.	What is your hobby? = Apakah hobimu? 1. My hobby is swimming. 2. My hobby is drawing. 3. My hobby is singing. 4. My hobby is dancing. 5. My hobby is playing.	Choosing on Good or Not Good Behavior. Practice the simple conversation.	5	√	
			Total N	umber Items		20	3	

c. Theme 3 "My Family"

No	Learning	Topics	Indicators	Material Material	Activities	Numbers	Judge E	valuation
	Objectives				\forall	of Questions	Relevant	Irrelevant
1	Reading	My	Students	Quiz (Objective Test with pictures	Pictures,	10	V	
	English	Family	are able to	as the options)	audios, works			
	Vocabulary		read the	William diag	based			
	and simple		words and	Who is this?	Objective			
	sentence		simple	1. Mother = ibu	Test and			
	about My		sentences	2. Father = ayah	matching			
	Family		in the quiz	3. Sister = saudara perempuan	pictures with			
				4. Brother = saudara laki-laki	correct words			

			with audio assistance.	5. Grandfather = kakek Who is this?	of Family Members.			
			Students are able to match the words and the correct picture without audio assistance.	She is my mother. + Dia adalah ibuku. He is my mother. = Dia adalah ayahku. She is my sister. = Dia adalah saudariku. He is my brother. = Dia adalah saudaraku.	A CAME			
			Students are able to play and finish the quiz in the digital media	He is my Grandfather. = Dia adalah kakekku. Match the pictures with the correct words! 1. Mother = a picture of a woman 2. Father = a picture of a man 3. Sister = a picture of a girl 4. Brother = a picture of a boy 5. Grandfather = a picture of old man	SILLA ON A			
2	Writing English Vocabulary	My Family	Students are able to do the	Trace the words! 1. Mother = ibu	Tracing the words	5	√	

3	about My Family Speaking	My	digital exercise by tracing every word correctly.	2. 3. 4. 5.	Sister = saudara perempuan Brother = saudara laki-laki	Choosing on	5	V	
	English Vocabulary and simple expression of asking and telling about Family Members.	Family	are able to asking and telling their Family Members.	 3. 4. 	= Lihat! Dia ibuku? B: Hai Anty! = Hai bibi. A: Look! He is my father. = Lihat! Dia ayahku. B: Good morning, uncle! = Selamat pagi paman. A: Look! She is my sister. = Lihat! Dia saudariku. B: Hello sister! = Halo kakak! A: Look! He is my brother. = Lihat! Dia saudaraku. B: Good Afternoon brother! = Selamat siang adik! A: Look! He is my grandfather. = Lihat! Dia kakekku. B: Good evening grandpa! = Selamat sore kakek!	Good or Not Good Behavior. Practice the simple conversation.			
					Total Number Items		20	3	

d. Theme 4 "My Daily Activities"

No	Learning	Topics	Indicators	Material	Activities	Numbers	Judge E	valuation
	Objectives					of Questions	Relevant	Irrelevant
1	Reading English Vocabulary and simple sentence about My Daily Activities	My Daily Activities	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the	Quiz (Objective Test with pictures as the options) What do you do everyday? 1. Brush my teeth = menyikat gigi 2. Breakfast = sarapan 3. Take a bath = mandi 4. Go to school = pergi ke sekolah 5. Play games = bermain What do you do everyday? I brush my teeth everyday. = Saya menyikat gigi setiap hari. I have breakfast everyday. = Saya sarapan setiap hari. I take a bath everyday. = Saya mandi setiap hari. I go to school everyday. = Saya pergi ke sekolah setiap hari. I play games with my friend everyday. = Saya	Pictures, audios, works based Objective Test and matching pictures with correct words of Daily Activities	10		

			quiz in the digital media	bermain dengan teman setiap hari.				
				 6. Brush my teeth = a picture of a boy who is brushing his teeth 7. Breakfast = a picture of a boy and a girl who are having breakfast together 8. Take a bath = a picture of a girl who is taking a bath 9. Go to school = a picture of a boy and a girl who are going to school together 10. Play games = a picture of a boy and a girl who are playing together 	AT CHARGINA			
2	Writing English Vocabulary about My Daily Activities	My Daily Activities	Students are able to do the digital exercise by tracing every word correctly.	"Trace the words!" 6. Brush my teeth = menyikat gigi 7. Breakfast = sarapan 8. Take a bath = mandi 9. Go to school = pergi ke sekolah 10. Play games = bermain	Tracing the words	5	V	

Speaking English Vocabulary and simple expression of asking and telling about Daily Activities.	My Daily Activities Students are able asking a telling t Daily Activities	yang kamu lakukan setiap hari? d d 1. A: What do you do every morning? = Apa yang kamu lakukan setiap pagi? B: I have breakfast every morning. = Saya sarapan setiap pagi	Choosing on Good or Not Good Behavior. Practice the imple conversation.	

	B: I brush my teeth everyday. = Saya menyikat gigi setiap hari.			
	Total Number Items	20	3	

e. Theme 5 "My House"

No	Learning	Topics	Topics Indicators	Material	Activities	Numbers	Judge Evaluation	
	Objectives				The state of the s	of Questions	Relevant	Irrelevant
1	Reading English Vocabulary and simple sentence about My House	My House	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture	Quiz (Objective Test with pictures as the options) What is this? 1. Car Garage = Garasi	Pictures, audios, works based Objective Test and matching pictures with correct words of My Daily Activities	10	V	

			without audio assistance. Students are able to play and finish the quiz in the digital media	This is a dining room. = Ini adalah sebuah ruang makan. This is a balcony. = Ini adalah sebuah balcon. This is a garden. = Ini adalah sebuah kebun. This is a laundy room. = Ini adalah sebuah kebun. This is a laundy room. = Ini adalah sebuah kamar cuci 1. Car Garage = a picture of a car garage 2. Dining room = a picture of a dining room 3. Balcony = a picture of a balcony 4. Garden = a picture of a garden 5. Laundry room = a picture of a laundry room
2	Writing English Vocabulary about My House	My House	Students are able to do the digital exercise by tracing every word correctly.	"Trace the words!" 1. Brush my teeth = menyikat gigi 2. Breakfast = sarapan 3. Take a bath = mandi 4. Go to school = pergi ke sekolah 5. Play games = bermain

3	Speaking English Vocabulary and simple expression of asking and telling about My House.	My House	Students are able to asking and telling their house and its parts.	What do you do every day? = Apa yang kamu lakukan setiap hari? 1. A: What do you do every morning? = Apa yang kamu lakukan setiap pagi? B: I have breakfast every morning. = Saya sarapan setiap pagi. 2. A: What do you do every day? = Apa yang kamu lakukan setiap hari? B: I take a bath everyday. = Saya mandi setiap hari. 3. A: What do you do every morning? = Apa yang kamu lakukan setiap pagi? B: I go to school every morning. = Saya pergi kesekolah setiap pagi. 4. A: What do you do everyday? Apa yang kamu lakukan setiap hari? B: I play games with my friend everyday. = Saya bermain dengan teman setiap hari. 5. A: What do you do every morning? = Apa yang kamu lakukan setiap pagi?	Choosing on Good or Not Good Behavior. Practice the simple conversation.	5	

B: I brush my teeth everyday. = Saya menyikat gigi setiap hari.			
Total Number Items	20	3	

Malaysia, 16 July 2023

Expert 1

Ideas Autism Centre Principal and Centre Manager

Sharifah bt Salleh

Name Kadek Sintya Dewi

NIM 2239041005

Topic Digital Interactive Media Development

Title Developing Digital Interactive Media to Teach Basic Literacy and Communication in

English As A Foreign Language for Young Learners with Autism Spectrum Disorder

(ASD)

Application Literacy Quest

Validator Dr. Sunitha Sivakumaran (Principal and Centre Manager)

Institution Taarana School, Pusat Pendidikan Khas Sinaran

Blue Print of Materials Needed as The Source of Digital Interactive Media Development

After analysing special education curriculum for students with ASD in phase A and phase B as well as the IEPs used in the private elementary school at North Bali and Malaysia, the researcher designed the blue print of materials needed as the source of digital interactive media development. The following table discusses learning objectives, topics, indicators, materials and activities that were generated to develop the digital interactive media called "Literacy Quest".

a. Theme 1 "My Body"

No	Topics	Indicators	Material	Activities	Judge Evaluation

	Learning Objectives					Numbers of Questions	Relevant	Irrelevant
1	Reading English Vocabulary and simple sentence about My Body	My Body	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the	Quiz (Objective Test with pictures as the options) • What is this? = Apakah ini? 11. Eyes = mata 12. Nose = hidung 13. Ears= telinga 14. Hair = rambut 15. Lips = bibir	Pictures, audios, works based Objective Test and matching pictures with correct words of Body Parts.	10		

2	Writing English Vocabulary about My Body	My Body	digital media Students are able to do the digital exercise by tracing every word correctly.	"Trace the words" activity 1. Eyes = mata 2. Nose = hidung 3. Ears= telinga 4. Hair = rambut 5. Lips = bibir	Tracing the words	5	√	
3	Speaking English Vocabulary and simple expression of greeting and telling about body condition.	My Body	Students are able to respond or tell their body condition and give greeting to others.	What happened dear? = Ada apa sayang? 5. My eyes hurt = Mata saya sakit 6. My nose is itchy = Hidung saya gatal 7. My ears hurt = Telinga saya sakit 8. My hair is wet = Rambut saya basah "Greeting and Parting": Good morning students! Good morning teacher! Good bye mom! Sit down please!	Choosing on Good or Not Good Behavior. Practice the simple conversation.	5	V	

	Good bye and take care!
	Good bye mom!
	Good bye teacher!
	I miss you mom!
	I miss you dear!
	Crying
	Running
	Playing
Total Number Ite	ems 20 3

b. Theme 2 "My Hobby"

No	Learning	Topics	Indicators	Material	Types of	Numbers	Judge E	valuation
	Objectives				Quiz	of Questions	Relevant	Irrelevant
1	Reading	My	Students	1. Swimming = berenang	Pictures,	10	V	
	English	Hobby	are able to	2. Drawing = menggambar	audios, works			
	Vocabulary		read the	3. S <mark>in</mark> ging = menyanyi	based			
	and simple		words and	4. Dancing = menari	Objective			
	sentence		simple	5. Playing = bermain	Test and			
	about My		sentences	My hobby is swimming.	matching			
	Hobby		in the quiz	My hobby is drawing.	pictures with			
				My hobby is singing.				

			with audio assistance.	My hobby is dancing. My hobby is playing.	correct words of hobbies.			
			Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	 6. Swimming = a picture of swimming kid. 7. Drawing = a picture of drawing kid. 8. Singing = a picture of singing kid. 9. Dancing = a picture of dancing kids. 10. Playing = a picture of playing kids. 	AT GARAGEE			
2	Writing English Vocabulary about My Hobby	My Hobby	Students are able to do the digital exercise by tracing every word correctly.	11. Swimming = berenang 12. Drawing = menggambar 13. Singing= bernyanyi 14. Dancing = menari 15. Playing = bermain	Tracing the words	5	V	

3	Speaking	My hobby	Students	What is your hobby? = Apakah	Choosing on	5	√	
	English		are able to	hobimu?	Good or Not			
	Vocabulary		asking and	6. My hobby is swimming.	Good			
	and simple expression of asking and		telling their hobbies.	7. My hobby is drawing. 8. My hobby is singing.	Behavior.			
	telling about hobbies.			9. My hobby is dancing. 10.My hobby is playing.	Practice the simple conversation.			
	1	1	Total N	umber Items	1	20	3	

c. Theme 3 "My Family"

arning jectives	Topics	Indicators	Material	Activities	Numbers	Judge E	valuation
jectives			J COMMON	\mathcal{D}	of Questions	Relevant	Irrelevant
ish ubulary uimple nce t My	My Family	Students are able to read the words and simple sentences in the quiz with audio assistance.	Quiz (Objective Test with pictures as the options) Who is this? 1. Mother = ibu 2. Father = ayah 3. Sister = saudara perempuan 4. Brother = saudara laki-laki 5. Grandfather = kakek	Pictures, audios, works based Objective Test and matching pictures with correct words	10	V	

2	Writing	My	Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	Who is this? She is my mother. + Dia adalah ibuku. He is my mother. = Dia adalah ayahku. She is my sister. = Dia adalah saudariku. He is my brother. = Dia adalah saudaraku. He is my Grandfather. = Dia adalah saudaraku. Match the pictures with the correct words! 11. Mother = a picture of a woman 12. Father = a picture of a man 13. Sister = a picture of a girl 14. Brother = a picture of a boy 15. Grandfather = a picture of old man Trace the words!	of Family Members.	5	√	
2	English Vocabulary	Family	are able to do the digital	 Mother = ibu Father = ayah Sister = saudara perempuan 	words	3	٧	

	about My Family		exercise by tracing every word correctly.	4. 5.	Brother = saudara laki-laki Grandfather = kakek				
3	Speaking English Vocabulary and simple expression of asking and telling about Family Members.	My Family	Students are able to asking and telling their Family Members.	2.	A: Look! She is my mother. = Lihat! Dia ibuku? B: Hai Anty! = Hai bibi. A: Look! He is my father. = Lihat! Dia ayahku. B: Good morning, uncle! = Selamat pagi paman. A: Look! She is my sister. = Lihat! Dia saudariku. B: Hello sister! = Halo kakak! A: Look! He is my brother. = Lihat! Dia saudaraku. B: Good Afternoon brother! = Selamat siang adik! A: Look! He is my grandfather. = Lihat! Dia kakekku. B: Good evening grandpa! = Selamat sore kakek!	Choosing on Good or Not Good Behavior. Practice the simple conversation.	5	1	
					Total Number Items		20	3	

d. Theme 4 "My Daily Activities"

No	Learning	Topics	Indicators	Material	Activities	Numbers	Judge E	Evaluation
	Objectives					of Questions	Relevant	Irrelevant
1	Reading English Vocabulary and simple sentence about My Daily Activities	My Daily Activities	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the	Quiz (Objective Test with pictures as the options) What do you do everyday? 1. Brush my teeth = menyikat gigi 2. Breakfast = sarapan 3. Take a bath = mandi 4. Go to school = pergi ke sekolah 5. Play games = bermain What do you do everyday? I brush my teeth everyday. = Saya menyikat gigi setiap hari. I have breakfast everyday. = Saya sarapan setiap hari. I take a bath everyday. = Saya mandi setiap hari. I go to school everyday. = Saya pergi ke sekolah setiap hari. I play games with my friend everyday. = Saya	Pictures, audios, works based Objective Test and matching pictures with correct words of Daily Activities	10		

			digital media	bermain dengan teman setiap hari.
				 Brush my teeth = a picture of a boy who is brushing his teeth Breakfast = a picture of a boy and a girl who are having breakfast together Take a bath = a picture of a girl who is taking a bath Go to school = a picture of a boy and a girl who are going to school together Play games = a picture of a boy and a girl who are playing together
2	Writing English Vocabulary about My Daily Activities	My Daily Activities	Students are able to do the digital exercise by tracing every word correctly.	"Trace the words!" 1. Brush my teeth = menyikat gigi 2. Breakfast = sarapan 3. Take a bath = mandi 4. Go to school = pergi ke sekolah 5. Play games = bermain

3	Speaking English Vocabulary and simple expression of asking and telling about Daily Activities.	My Daily Activities	Students are able to asking and telling their Daily Activities.	What do you do every day? = Apa yang kamu lakukan setiap hari? 1. A: What do you do every morning? = Apa yang kamu lakukan setiap pagi? B: I have breakfast every morning. = Saya sarapan setiap pagi. 2. A: What do you do every day? = Apa yang kamu lakukan setiap hari? B: I take a bath everyday. = Saya mandi setiap hari. 3. A: What do you do every morning? = Apa yang kamu lakukan setiap pagi? B: I go to school every morning. = Saya pergi kesekolah setiap pagi. 4. A: What do you do everyday? Apa yang kamu lakukan setiap hari? B: I play games with my friend everyday. = Saya bermain dengan teman setiap hari. 5. A: What do you do every morning? = Apa yang kamu lakukan setiap hari.	Choosing on Good or Not Good Behavior. Practice the simple conversation.	5	

	B: I brush my teeth everyday. = Saya menyikat gigi setiap hari.			
	Total Number Items	20	3	

e. Theme 5 "My House"

No	Learning	Topics	Indicators	Material	Activities	Numbers	Judge E	valuation
	Objectives			ANTIRO A	NO.	of Questions	Relevant	Irrelevant
1	Reading English Vocabulary and simple sentence about My House	My House	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without	Quiz (Objective Test with pictures as the options) What is this? 1. Car Garage = Garasi Mobil 2. Dining room = ruang makan 3. Balcony = balcon 4. Garden = kebun 5. Laundry room = ruang cuci This is a car garage. = Ini adalah sebuah garasi mobil. This is a dining room. = Ini adalah sebuah ruang makan.	Pictures, audios, works based Objective Test and matching pictures with correct words of My Daily Activities	10		

			audio assistance. Students are able to play and finish the quiz in the digital media	This is a balcony. = Ini adalah sebuah balcon. This is a garden. = Ini adalah sebuah kebun. This is a laundy room. = Ini adalah sebuah kamar cuci 6. Car Garage = a picture of a car garage 7. Dining room = a picture of a dining room 8. Balcony = a picture of a balcony 9. Garden = a picture of a garden 10. Laundry room = a picture of a laundry room	CHARLES THE STATE OF THE STATE			
2	Writing English Vocabulary about My House	My House	Students are able to do the digital exercise by tracing every word correctly.	"Trace the words!" 6. Brush my teeth = menyikat gigi 7. Breakfast = sarapan 8. Take a bath = mandi 9. Go to school = pergi ke sekolah 10. Play games = bermain	Tracing the words	5	1	

3	Speaking	My House	Students	What do you do every day? = Apa	Choosing on	5	$\sqrt{}$	
	English		are able to	yang kamu lakukan setiap hari?	Good or Not		·	
	Vocabulary		asking and		Good			
	and simple		telling their	6. A: What do you do every	Behavior.			
	expression of		house and	morning? = Apa yang kamu				
	asking and		its parts.	lakukan setiap pagi?				
	telling about		P	B: I have breakfast every	Practice the			
	My House.			morning. = Saya sarapan setiap	simple			
	y			pagi.	conversation.			
				7. A: What do you do every day?	conversation.			
				/= Apa yang kamu lakukan	A N			
				setiap hari?				
			A.	B: I take a bath everyday. =	1			
			100	Saya mandi setiap hari.		The state of the s		
			3/1/	8. A: What do you do every				
			1	morning?= Apa yang kamu				
				lakukan setiap pagi?				
				B: I go to school every	Y			
			9.7	morning. = Saya pergi	1	- <i>U &</i>		
			Sale Contraction of the Contract	kesekolah setiap pagi.				
				9. A: What do you do everyday?	Y 7 /	N 7		
				Apa yang <mark>kamu lakukan setiap</mark>		1		
			1	hari?		7.8		
				B: I play games with my friend		1		
				everyday. = Saya bermain				
				d <mark>e</mark> ngan teman setiap hari.				
				10. A <mark>: What do</mark> you do every				
				morning? = Apa yang kamu				
				lakukan setiap pagi?				

	B: I brush my teeth everyday. = Saya menyikat gigi setiap hari.			
	Total Number Items	20	3	

Malaysia, 16 July 2023 Expert 2 Taarana Principal

Dr. Sunitha Sivakumaran

Appendix 2.2. Content Validity Testing

1) Validation of Topics and Material Inserted to Develop Digital Interactive Media "Literacy Quest" a.Cross Tabulation

		JUD	GE I
	- TN	Irrelevant	Relevant
JUDGE II	Irrelevant	A = 0	C = 0
	Relevant	B = 0	D = 15

b.Formula Calculation

Content Validity

$$\frac{15}{0+0+0+14} = \frac{15}{15} = 1$$

Appendix 4. Observation Result of Intervention Phase in Indonesia and Malaysia

No.	Participants Identity	Teaching and Learning Activity	Notes
1.	Name: IS1CA	Pre-Activity	Media Used: Literacy Quest "Recap Video
	Age : 8 y.o	• Greeting: the teacher greets the student	of Body Parts"
	Gender: Male	expressively	Focused Skills: focus and interaction
	Academic Level: Academic 1	• Recap: The teacher explains about the topic "Parts of Body". Asking some questions about the topic. Asking students to touch five parts of	skills.
	Intermediate level (picture-words)	body. Then, Watching a Video in the Literacy Quest App.	
	Diagnoses: Autism ADHD	Following Up Activities	
	Characteristics: Lack of focus, over cheerful, reward addicted, playful, cheerful, discipline and very active.	 Whilst Activity Introduction: The teacher introduces further five parts of body by using Quiz activity in Literacy Quest Application Activities: Answering a quiz about five parts of 	Media Used: Literacy Quest "Quiz" Focused Skills: writing, reading, social communication.
		body.	

Favourite Activities:	Listening to correct pronunciation of those five	
Drawing, Playing Games	parts of body.	
	• Reading five simple sentences about those five	
	parts of body.	
	 Matching Pictures with the correct words. 	
	 Tracing words about previous five parts of body. 	
	• Responding to correct expression to answer	
	questions about those previous learned parts of	
	body conditions.	
	Practicing the simple talk with the teacher about	
	asking and giving information about body	2 /
	condition.	
	Following Up Activity	
	Post Activity	Media Used: Printed Puzzle
	Games: Arranging Jumbled Puzzle	Focused Skills: vocabulary building,
	Rewards: Sing a song about parts of Body	speaking (singing), focus skill on teachers'
	Following Up Activity	instructions while doing the puzzle and
	Following Op Activity	imitating the correct pronunciation in
		singing a song.

-			
ĸ	PCII	It I	П

- IS1CA at the beginning seems not knowing 5 English words about parts of body that were asked by the teacher. He looked very doubtful during pre-activity.
- Entering the whilst activity, IS1CA was introduced to an application namely "Literacy Quest" to continue the activity that was being done in a digital quiz. He looked so excited about the quiz and he looked confuse at the beginning. Until he knew how to use the app properly, then he suddenly can answer the quiz very quickly because he can listen to audios provided in the app when he was failed to read. His memory was back and he can remember those five words by listening to its audio.
- He looks so cheerful when listening to direct feedback audio and at the end of the game he can get three stars.
- To check his memory further, the next activity was matching pictures of body parts with the words without any audio. Here he faced a quite same problem again. At the beginning he forgets the spelling of body part name in the form of words. But after the teacher asked him to be more focus, then he

- can match the pictures with the appropriate words with teacher guidance.
- This activity was repeated once again till he can do it independently.
- The next activity was tracing words about body parts.

 This activity seems so easy for him since there had been the words' shadow. He can finish it well although with a lot of erasing, undoing and clearing unwanted lines.
- Then, strategically the teacher took a piece of blank paper and asked him to write five words that had been learned just now. Surprisingly, he wrote two words as the title "America" and "Indonesia". After that he divided the paper to be 2 parts. He wrote the words in Bahasa Indonesia first and then followed by the English words or the translation. This writing activity still under the teacher guidance since he had lack of confidence in writing.
- Finally, the teacher closed the lesson by leading him to play a printed puzzle stocked on the wall. The jumbled puzzle about those five body parts should be

well arrange with the instruction in English
Language from the teacher.

• He can do it very well and very quickly.

• That's why the teacher gave him additional activity
about sing a song of body parts. The teacher changed
the lyric of "head, shoulders, knees and toes song"
became "hair, eyes, nose and lips".

• He really enjoyed the teaching and learning process
with the tablet and literacy quest application. He
asked the teacher to play with the tablet again the
next day.

• After treatment: she can be calm down, and do the

activities very well. She gave her teacher a gift "a potato snack because of she is happy to learn with the

apps".

2. Name: IS2SN

Age: 10th

Gender: Male

Academic Level: 5th level of academic special Programme (Advance: Picture-Sentence)

Diagnosis: Autism

Characteristics: Lack of focus but getting better gradually, can read sentences, lack of social interaction

Favourite Activities:

- Drawing: Lift (at the moment so obsessed about lift)
- Non-digital
 playing: Lego
 (making the shape of Lift)

Pre-Activity

- Greeting: the teacher greets the student expressively
- Recap: The teacher explains about the topic "Parts of Body". Asking some questions about the topic. Asking students to touch five parts of body. Then, Watching a Video in the Literacy App.

Media Used: Literacy Quest "Recap Video of Body Parts"

Focused Skills: focus skills, interaction skill.

Following Up Activities

Whilst Activity

- Introduction: The teacher introduces further five parts of body by using Quiz activity in Literacy Quest Application
- Activities: Answering a quiz about five parts of body.
- Listening to correct pronunciation of those five parts of body.
- Reading five simple sentences about those five parts of body.
- Matching Pictures with the correct words.
- Tracing words about previous five parts of body.

Media Used: Literacy Quest "Quiz"

Focused Skills: writing, reading, social communication.

	T	T
• Digital game	Responding to correct expression to answer	
playing: Roblox	questions about those previous learned parts of	
games (at home)	body conditions.	
	Practicing the simple talk with the teacher about	
	asking and giving information about body	
	condition.	
	Following Up Activity	
	Post Activity	Media Used: Printed Puzzle
	Games: Arranging Jumbled Puzzle	Focused Skills: vocabulary building,
	Rewards: Sing a song about parts of Body	speaking (singing), focus skill on teachers'
	Following Up Activity	instructions while doing the puzzle and imitating the correct pronunciation in
	Drawing a person and naming its body parts.	singing a song.
Result []	• IS2SN feels so excited about the apps. He smiles and	
	looks so happy when the teacher explain that he will	
	learn with tablet and do some activities inside the	
	apps. Quite same with IS1CA, IS2SN also over	
	excited to gadget. The teacher taught IS2SN easily	
	because he can answer the questions in "Quiz	
	apps. Quite same with IS1CA, IS2SN also over excited to gadget. The teacher taught IS2SN easily	

activity" without listening more to the audio. He is older than IS1CA and spending more years in the school compared to IS1CA. Therefore, he has been trained longer and had better focus and more controlled behaviour than IS1CA. He enjoyed drawing a lot. Then, after he can finish the activity with Literacy Quest application very well, the teacher gave him free time to draw a person and name its body parts.

- Baseline: good vocabulary mastery, good focus, excited to gadget, good motoric control, usually speak out of topic and try to explore the gadget out of the Literacy Quest application like try to open YouTube and other online games.
- After treatment: start to do digital quiz very well with minimal stimulation, can memories the vocabularies very well, calm down in front of the gadget.

Name: IS3DVN **Pre-Activity** Media Used: Literacy Quest "Recap Video of Body Parts" Age: 10 years old • Greeting: the teacher greets the student Gender: Male expressively Focused Skills: focus skills, interaction • Recap: The teacher explains about the topic **Academic Level**: 5th level of skill. academic special Programme "Parts of Body". Asking some questions about (Advance: Picture-Sentence) the topic. Asking students to touch five parts of Diagnosis: Autism body. Then, Watching a Video in the Literacy App. Characteristics: easily Following Up Activities melting down, hearing sensitivity, lack of focus. Media Used: Literacy Quest "Quiz" Whilst Activity Can read sentences, can Introduction: The teacher introduces further five Focused Skills: writing, reading, social speaking English count, parts of body by using Quiz activity in Literacy communication. fluently. Quest Application **Favourite Activities:** • Activities: Answering a quiz about five parts of watching YouTube, body. playing golf with non-digital • Listening to correct pronunciation of those five toys. parts of body. • Reading five simple sentences about those five parts of body.

• Matching Pictures with the correct words.

• Tracing words about previous five parts of body.

	 Responding to correct expression to answer questions about those previous learned parts of body conditions. Practicing the simple talk with the teacher about asking and giving information about body condition. Following Up Activity 	
	Games: Arranging Jumbled Puzzle	Media Used: Printed Puzzle Focused Skills: vocabulary building,
	 Rewards: Sing a song about parts of Body Following Up Activity Working on printed worksheet related to the topic. 	speaking (singing), focus skill on teachers' instructions while doing the puzzle and imitating the correct pronunciation in singing a song.
Result []	IS3DVN feels so excited about the apps. He smiles	
ACSUIL II	and looks so happy when the teacher explain that he will learn with tablet and do some activities inside the	
	apps. Quite same with IS2SN who felt excited to gadget, but IS3DVN was over excited to gadget. The teacher taught IS3DVN a little bit harder than IS2SN	

although he can answer the questions easily in "Quiz activity" without listening more to the audio. He was at the same age with IS2SN and spending more years in the school compared to IS2SN. Therefore, he has been trained longer but he had sensory sensitivities to sound and can lose focus easily. Therefore, sometimes the shadow teacher had to cope those problems during the teaching and learning process. He has hard time to maintain his focus and control his behaviour compared to IS2SN. He enjoyed playing gadget a lot. Then, after he can finish the activity with Literacy Quest application very well, the teacher gave him free time to watch vocabulary video in YouTube.

- Baseline: good vocabulary mastery, good focus but easily lose it, excited to gadget, good motoric control, usually speak out of topic and try to explore the gadget out of the Literacy Quest application like try to open YouTube and other online games.
- After treatment: start to do digital quiz very well with minimal stimulation, can memories the vocabularies very well, calm down in front of the gadget.

Important Notes	Reward Alert	Rewards was given regularly after students
	Steps in Teaching and Learning Process di Indonesia:	showed good performance and behaviour.
	Greet-recap-intro-activities-games-rewards.	Rewards was also given at the end of a
		lesson whenever students behave well
		from the first lesson until the last lesson. It
		was done based on some consideration of
	PENDIDIA	the students' characteristics and situational
		conditions. For example: when a student
		behaved well in every lesson and activity
		but he still had focus problem, then the
		reward given may in the form of playing
		with non-screen activities.

A. The result of "Literacy Quest" implementation in the teaching and learning process as digital interactive media for teaching basic English literacy and communication to young learners with ASD in Malaysia.

The following table shows the observation result during the implementation of Literacy Quest to three samples in Malaysia. This table consists only the implementation of the first topic "My Body" in the first week intervention to Malaysian young learners with ASD.

No.	Participants Identity	Teaching and Learning Activities	Notes
1.	Name: MS1JVT Age: 8 years old Gender: Female (an orphan girl) Academic Level: Academic 1 Begginer) Beginner level (pre K of	 • Greeting: the teacher greets the student expressively • Recap: The teacher explains about the topic "Parts of Body". Asking some questions about the topic. Asking students to touch five parts of body. Then, Watching a Video in the Literacy App. Following Up Activities 	Media Used: Literacy Quest "Recap Video of Body Parts" Focused Skills: focus skills, interaction skill.
	reading, 1st grade	Whilst Activity	Media Used: Literacy Quest "Quiz"
	Diagnose s: Intellectual Disability, ADHD	• Introduction: The teacher introduces further five parts of body by using Quiz activity in Literacy Quest Application	Focused Skills: writing, reading social communication.
	Characteristics: Lack of focus, sometimes has good focus, attention seeker.	 Activities: Answering a quiz about five parts of body. Listening to correct pronunciation of those five parts of body. 	7
	Favourite Activities: All can be done	 Reading five simple sentences about those five parts of body. Matching Pictures with the correct words. 	

	 Tracing words about previous five parts of body. Responding to correct expression to answer questions about those previous learned parts of body conditions. 	
	 Practicing the simple talk with the teacher about asking and giving information about body condition. 	
	Following Up Activity	
	Post Activity Games: Arranging Jumbled Puzzle	Media Used: Printed Puzzle Focused Skills: vocabulary building,
	Rewards: Sing a song about parts of Body	speaking (singing), focus skill on teachers' instructions while doing
	Following Up Activity	the puzzle and imitating the correct pronunciation in singing a song.
Result□	• The teaching and learning process started with greeting from a teacher to make class situation warmer.	NB: combining reading, writing, and simple speaking activities assisted
	• Then, teacher gave recap about the topic and some learning materials and media that will be used in that English lesson period. The teacher told that in English lesson today there will be an introduction about Body Parts and learning how ask and	by digital interactive media specifically designed to meet the characteristics of students with ASD can develop student's basic literacy
		and communication skills well. It

tell body condition in a very simple talk to practice social interaction.

- The focus of lesson was: to build students English vocabulary about body parts, to teach the students how to read the words and simple sentences, match the body parts pictures with the correct words, write words about parts of body, and to train students basic communication skill by answering and practicing about asking and telling about body condition.
- During the recap activity, the teacher also asked her to touch some parts of her body based on the teacher's instruction. She confused and looked doubtful at the beginning. Then, the teacher repeated the same activities two times more as a warming up activity.
- After recap activity, teacher continue with introducing five body parts to the student by playing a video in the Literacy Quest App to her better pictures about the five body parts. Pictures, audio, music, words/five vocabularies and limited duration video really fitted the characteristics of students with ASD.
- The focus of the lesson was only five parts of body. Why only five vocabularies? Because, for students with autism they have limited comprehension that teacher needs to consider to limit vocabularies amount per teaching.

can be seen from the activities and the result of activities explained in the teaching and learning activities columns.

- She enjoyed watching the short video with a lot of smiles at her face. She was given to watch the video two times and after that the teacher review a little bit by asking her again to touch five body parts mentioned in the video.
- She could do it very well, although still doubtfully.
- The activity then continued by answering some questions in the quiz feature of Literacy Quest App. This app is completed by pictures, words, audios, simple sentences and reward. It was designed to meet the characteristics of students with ASD. She was really excited to do the quiz after the teacher told her about how to use several buttons in the quiz and got ready to do the quiz. While doing the quiz the teacher gave her some instructions like: "hold on, read the words first! If you cannot read the word please tap the blue button to listen to the audio!"
- This app as a learning media will work better whenever there are more meaningful instructions from teachers which are fit to the students' weaknesses and conditions. Thus, the media can help teachers to overcome it easier.
- Next, the activity was followed by matching pictures with words. In this activity, the app was used but there was no audio provided to check whether the student can memories the words

or vocabularies that had been learned in the previous activities or not.

- Because this activity in the app had been design to make students with ASD can have better focus to only provide minimum pictures and words in each page, that's why the students can perform better here.
- Next activity was tracing words about five related body parts that has been learned previously. The student was required to trace the words' shadow. This activity was really easy to do. Therefore, the teacher asked her to take a piece of blank paper in the small cupboard in the classroom and give her dictation about those five vocabularies of body parts.
- Slowly she could remember those five words and were able to write the on the paper.
- Furthermore, the last activity was about simple talk on asking and telling body condition.
- The app provides five simple talk related to the condition of five body parts that had been leaner previously. In this activity, the students have to pay attention on the vocabularies, clues in the pictures, and audios about what the speakers in the simple talk said. Besides, students also have to choose whether a situation

in which a child can answer a question from someone properly is a good or not good behaviour.

• The teacher asked her to read and listen to the simple talk first and let her to answer whether the child in the picture showing a good or not good behaviour first. Then, after all questions had been answered the teacher continued to do a practice with the student. The teacher asked her about her condition by saying:

Teacher: "what happened to you JVT?" (for example: your eyes in not in a good condition)

MS1JVT: My eyes hurt!

- By having reading, listening, writing and speaking activity at the same time in a language learning lesson, it is believed to give better experience that the vocabularies or a concept can stick better on the brain.
- After speaking activity, the lesson was closed by playing a puzzle about five body parts introduced previously and sing a song about body parts.
- In short, MS1JVT likes to learn with the apps, although at the beginning she was losing her focus a little bit because of having over interest to gadget. After being treated carefully with guidance 1 times, she then can-do activities in the apps independently with teacher controls.

		 Baseline: mispronouncing "eye, and eyes, wet" + over interested to gadget After treatment: she can be calm down, and do the activities very well. She gave her teacher a gift "a potato snack because of she is happy to learn with the apps". 	
2.	Name: MS2SML Age: 7 years old Gender: Male Academic Level: Early Transition Programme Diagnoses: Autism Characteristics: Lack of Focus, Learning/starting to talk. Favourite Activities: Take and drop, working on tablet activities. don't like	 Greeting: the teacher greets the student expressively Recap: The teacher explains about the topic "Parts of Body". Asking some questions about the topic. Asking the student to touch five parts of body. Teacher asked him to touch parts of body (hair, eyes, nose, lips, ears). Teacher asked him about the amount of parts of body he has. Then, watching a video in the Literacy App. Following Up Activities	Media Used: Literacy Quest "Recap Video of Body Parts" Focused Skills: focus skills, interaction skill.
	activities, don't like worksheet.	 Whilst Activity Introduction: The teacher introduces further five parts of body by using Quiz activity in Literacy Quest Application Activities: Answering a quiz about five parts of body. 	Media Used: Literacy Quest "Quiz" Focused Skills: writing, reading, social communication.

- Listening to correct pronunciation of those five parts of body.
- Reading five simple sentences about those five parts of body.
- Doing some activities in the Apps with tablet, matching words with pictures, tracing words.
- Teacher asked him to guess the pictures in the right side of the screen and close the words in the left side during "the matching activities".
- Teacher asked him to read the words in the left side and close the pictures in the right side.
- Before starting to write or trace the words, the teacher asked him to guess the picture provided and read the word.
- Teacher with clear and strong instruction asked him to write letter by letter neatly.
- MS2SML then got ready to do tracing words activity about previous five parts of body.
- Responding to correct expression to answer questions about those previous learned parts of body conditions.
- Practicing the simple talk with the teacher about asking and giving information about body condition.
- Following Up Activity

Result□	Post Activity • Games: Arranging Jumbled Puzzle with teacher's instruction • Rewards: Playing take and drop games as a reward with teacher's instruction. Following Up Activity			
 SML feels so excited about the apps. He smiles and looks so happy when the teacher explain that he will learn with tablet and do some activities inside the apps. Quite same with JVT and SML also over excited to gadget. The teacher has to work a little bit hard with Samuel because he is a new comer in the academic class with lack of focus and speech problem. However, he can finish the activities well with more practice. Here the researcher found that SML needs to improve his focus more. Baseline: lack of English vocabulary about body parts, lack of focus, over excited to gadget, less motoric control. 		NB: combining reading, writing, and simple speaking activities assisted by digital interactive media specifically designed to meet the characteristics of students with ASD can develop student's basic literacy and communication skills well. It can be seen from the activities and the result of activities explained in the teaching and learning activities columns.		

		After treatment: start to learn new vocabularies, can	
		memories the vocabulary, calm down in front of the	
		gadget.	
		o PENDIDIA.	
3.	Name: MS3LKM	Pre-Activity //	Media Used: Literacy Quest "Recap
	Age: 15 years old	Greeting: the teacher greets the student expressively	Video of Body Parts"
	Gender: Male	• Recap: The teacher explains about the topic "Parts of	Focused Skills: focus skills,
	Academic Level:	Body". Asking the student to touch five parts of body.	interaction skill.
	Prevocational	Teacher asked him to touch parts of body (hair, eyes, nose,	
	Diagnose: Autism	lips, ears).	
	Characteristics : Focus problem, Sensory tactile,	 Teacher asked him about the amount of parts of body he has. 	
	articulation problem.	• Then, watching a video in the Literacy App.	
	Favourite Activities:	DNDIKSEL	
		Whilst Activity	Media Used: Literacy Quest "Quiz"
		• Introduction: The teacher introduces further five parts of	Focused Skills: writing, reading,
		body by using Quiz activity in Literacy Quest Application	social communication.
		• Activities: Answering a quiz about five parts of body.	

 about those previous learned parts of body conditions. Practicing the simple talk with the teacher about asking and giving information about body condition. Post Activity 	Media Used: Printed Puzzle
 Teacher with clear and strong instruction asked him to write letter by letter neatly. SML then got ready to do tracing words activity about previous five parts of body. Responding to correct expression to answer questions 	
 "the matching activities". Teacher asked him to read the words in the left side and close the pictures in the right side. Before star to write or trace the words, the teacher asked him to guess the picture provided and read the word. 	
 Doing some activities in the Apps with tablet, matching words with pictures, tracing words. Teacher asked him to guess the pictures in the right side of the screen and close the words in the left side during 	
 Listening to correct pronunciation of those five parts of body. Reading five simple sentences about those five parts of body. 	

	Games:	Focused Skills: vocabulary building,
	Reward:	speaking (singing), focus skill on
	Reward.	teachers' instructions while doing
	Drag and Drop	the puzzle and imitating the correct
	Following Up Activity	pronunciation in singing a song.
	Put puzzle in the correct place about the topic	
Result []	MS3LKM feels less excited about the apps rather that the other	NB: combining reading, writing, and
	students. He looks flat and only said "ok" when the teacher	simple speaking activities assisted
	explain that he will learn with tablet and do some activities	by digital interactive media
	inside the apps. Different from MS1JWT and MS2SML who	specifically designed to meet the
	are over excited to gadget, MS3LKM looks so calm but he	characteristics of students with ASD
	loses his focus at the beginning of the activity with the apps.	can develop student's basic literacy
	The teacher has to work a little bit hard with MS3LKM because	and communication skills well. It
	he is a teenager with Autism with late intervention. Therefore,	can be seen from the activities and
	he just finished oral and behaviour treatment for being able to	the result of activities explained in
	entering academic class. He was still new in academic class,	the teaching and learning activities
	that's why he was still struggling to read. Other problems as	columns.
	well faced by him were writing because of he was having	
	sensory tactile, speaking because he was having articulation	
	problem, and sometime in reading because he was having focus	
	problem. Those problems could be covered up by the use of	

	Literacy Quest App because it can be use repeatedly. The use	
	of pictures, audios, short videos, simple sentences with the	
	· · · · · · · · · · · · · · · · · · ·	
	most used words for daily interactions. He was benefitted so	
	much by all elements of this app. Therefore, he can perform	
	better each day during the observation period. At the end, he	
	can finish the activities well with more practice and teacher	
	guidance.	
	Baseline: lack of vocabulary, lack of focus, lack of sensory	
	tactile control.	
	After treatment: start to learn new vocabularies, can memories	
	the vocabulary, pronouncing the words and sentences better,	7/
	can control sensory tactile (carefully touching the tab screen,	
	using the tab pen, and having better writing).	
Important notes	Rewards Alert in Malaysia	Only give reward at the end of the
	• Steps in Teaching and Learning Process in Malaysia: Greet-	lesson for approximately 5 minutes
	recap-intro-activities-games-rewards.	depending on students' behaviour
		during de learning process.
	DNDIKSHA	
	L	Screen time is a form of reward.
		Giving reward should be as minimal
		as possible to avoid addiction (like
		students will only learn just after
<u> </u>		

	they	are	given	reward).	Reward
	shou	ld be	faded a	long the w	ay.



Appendix 5. Questionnaire of Media and Content Experts Validation

1ST Judge of Questionnaire of Media and Content Experts Validation

Name Kadek Sintya Dewi

NIM 2239041005

Topic Digital Interactive Media Development

Title Developing Digital Interactive Media to Teach Basic Literacy and Communication in

English As A Foreign Language for Young Learners with Autism Spectrum Disorder

(ASD)

Application Literacy Quest

Validator Prof. Dr. Ketut Agustini, S.Si., M.Si

Institution Universitas Pendidikan Ganesha

1. Introduction

This study is conducted to develop a Digital Interactive Media for Students with ASD at a private elementary school in North Part of Bali. Based on preliminary observation, there is no specific digital interactive media used during the screen time. It is urgently needed to give the students with ASD better learning experiences. Since they have high functioning ability that they are able to read, write and speak in English, therefore, giving 15 minutes screen time with meaningful digital interactive video will be so beneficial rather than to have YouTube video only. The existing need will be solved by developing Digital Interactive Media based android and web application system by applying ADDIE Research and Design (RnD) Development Model. The development of the application will be used to help students to learn Basic English

Literacy through several digital activities that can be accessed from a smartphone (through an app that can be downloaded from the Play store). The material selected are vocabularies in the topics "My Body, My Family, My Hobby, My Environment, and My Daily Activities". The product was validated through adapting content and media expert judgment proposed by Findawati and Suprianto, (2014) and the User Experience Questionnaire (UEQ) adopted from Hinderks et al., (2019).

According to Wahono (2006) and Findawati & Suprianto (2014) some aspects of the learning media evaluation covers; software engineering aspects and learning design aspects.

- (1) Software Engineering Aspects: Effective and efficient in the development and use of the learning media. Reliable (reliability). Maintainable (can be managed easily for its maintenance). Usability (easy to use and simple in operation). The accuracy of selecting the type of application/software/tool for development. Compatibility: learning media can be installed/run on a variety of existing hardware and software. Learning media program packaging is integrated and easy to execute. Complete media learning program documentation includes: installation instructions: (clear, brief, complete), troubleshooting: clear, structured, and anticipative, and program design: clear. Reusable: part or the entire learning media program can be reused to develop other learning media.
- (2) Design aspects of learning: clarity of the purpose of learning. Relevance of learning objectives with SK/KD/Curriculum. The scope and depth of the purpose of learning. Accuracy of application of learning strategies. Interactivity. Learning motivation. Contextuality and topicality. The availability and quality of the learning media material. Material compatibility with the purpose of learning. The depths of matter. Easy to understand. Systematic, riddle and logical circuit clear. Clear descriptions, illustrations, examples, simulations, and exercises. Consistency of evaluation with learning objectives. The accuracy and precision of the evaluation tool. Feedback on evaluation results.

2. The Dimension of Each Item Statement

According to (Findawati and Suprianto, 2014) there are two dimensions of evaluating learning media including Software Engineering aspect and Learning Design aspect. The software engineering aspect measures the effectiveness and efficiency of the development of learning media include several dimensions such as reliability, maintainability, usability, appropriateness, compatibility. Meanwhile, learning design aspect measures the clarity and relevancy between learning objective and content of the media. The aspect includes the dimension of clarity, relevancy, depth, appropriateness, interactivity, motivation.

NO	DIMENSION	DEFINITION
1	Software Engineering Aspect (Media Expert Judgements)	Software engineering aspect is defined as the degree of the chosen platform appropriateness to the development of the product.
2	Learning Design Aspect (Content Expert Judgements)	Learning design aspect is defined as the degree of learning objective appropriateness to content of the media

NO	DIMENSION	SUB DIMENSION	DEFINITION
1	Software Engineering	Reliability	The degree of how reliable is the media.
		Readability	The degree of how the readability of the text available in the media.

		Compatibility	The degree of how compatible
			the media can be played.
		Appropriate selection of	The degree of how the media are
		tools	appropriate with the content.
2	Learning Design	Clarity	The degree of how clear is the
		RENDIDIA	learning objectives.
	4	Interactivity	The degree of how the media
			interact with the users.
	₩	Contextuality	The degree of how good the
		media represents the learning material.	
		Suitability	The degree of how suitable the
	7(-1)		media are.
		Convenient	The degree of how easy to
		DANTERE	access the media.
		Usability	The degree of how convenient
			the media is to be accessed.

3. Blueprint of Media Expert Judgements

3.1 Content Expert Evaluation Sheet

The content expert evaluation sheet is filled by expert judges. Give a checklist mark in the scoring column and if there are comments, please fill the comment column. The content expert evaluation sheet is adapted from Findawati and Suprianto (2014).

No	Instrument's	Indicators	Item Statements
	Name	RATE	RVAINIKAN
1.	Content Expert	Clarity	1. The objective is clear and simple
	evaluation		2. The objective considers students' with ASD
	sheet.	B A	characteristics and needs
		Interactivity	3. Interactivity in material design
			4. Following specification theory needed by students
			with ASD to meet proper interactivity
		Contextuality	5. Learning Objectives are in accordance with the
	1		IEPs/ Rencana Pembelajaran Individual (PPI)
	1	The state of	Berbasis Tema untuk Anak Berkebutuhan Khusus
			(Autis) and Learning Objectives Flow.The learning material in accordance with the IEPs/
			C
			Rencana Pembelajaran Individual (PPI) Berbasis
			Tema untuk Anak Berkebutuhan Khusus (Autis).
		Usability	7. Compatibility of the learning strategies.

	8. Ease to understand learning.
Consistency	9. Appropriateness of the digital interactive media
	with the learning materials.
	10. Appropriateness of the digital interactive media
	with the topic of material.
	11. The accuracy and consistency of the digital
18 18	interactive media.

3.2 Media Expert Evaluation Sheet

The media expert evaluation sheet is filled by expert judges. Give a checklist mark in the scoring column and if there are comments, please fill the comment column. The media expert evaluation sheet is adapted from Findawati and Suprianto (2014)

No	Instrument's Name	Indicators	Item Statements
1	Media Expert evaluation sheet	Reliability	 Instructions clarity on the use of the program for students with ASD Effectiveness of the digital interactive media to support students with ASD learning
		Compatibility	3. Compatible with smartphones and web

		4. The ease of application management
	Interactivity	5. Readability of text/writing
		6. The display's quality
		7. The creativity of the design
	and the second second	8. Color composition
	Appropriateness	9. Appropriate selection of application or
A A	18812	software or tool types for development
	28	10. Appropriate selection of supporting elements
	2	for students with ASD: audio, visual, and
	Was Es	reward system.

4. Original Content Expert Judgement

(a) Content Expert Judgement

No	Pernyataan	Sangat	Baik	Cukup	Kurang	Tidak	Exp	ert's	Note
		Baik	O.	Baik	Baik	Baik	Evaluation		
							Relevant	Irrelevant	
1	Kejelasan tujuan pembelajaran	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					*		
2	Tujuan pembelajaran								

	dibuat dengan mempertimbangkan karakter dan kebutuhan siswa dengan hambatan intelektual / Autis							
4	Media menyajikan disain isi materi yang menarik dan interaktif		TAS	PEND A	IDIK _d ,	10		
5	Media dibuat dengan mengikuti teori spesifikasi yang dibutuhkan oleh siswa dengan hambatan intelektual / Autis	DIVITE.				Man.	Name of the last o	
6	Relevansi materi pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana Pembelajaran Individual Berbasis Tema/		$M \delta^2 /$	DIR	SH			

	Program Pembelajaran Individual (PPI) untuk Anak Berkebutuhan Khusus (Autis)								
7	Cakupan dan kedalaman materi sesuai dengan level anak berkebutuhan khusus (Autis)	300	TAS	PEND Â	IDIKA,	CANADO	ou	No.	
8	Ketepatan aktivitas yang disajikan menunjang literasi bahasa Inggris dasar meliputi; aktivitas membaca, menulis dan berbicara	IA .					>		
9	Interaktivitas		57	DIV	SE	1	*		
10	Pemberian motivasi belajar	Section 1					*		
11	Kontekstualitas dan aktualitas						>		

12	Kelengkapan dan kualitas digital interaktif media untuk menunjang literasi bahasa Inggris dasar meliputi; aktivitas membaca, menulis dan berbicara		18	PEND	DIR		*	
13	Kesesuaian materi dengan pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana Pembelajaran Individual Berbasis Tema untuk Anak Berkebutuhan Khusus (Autis)	DIVIPLE				CANTAN		
14	Kedalaman materi dengan level Anak Berkebutuhan Khusus (Autis)	-	7	DIE	SII		*	
15	Kemudahan untuk dipahami						~	

16	Sistematis, runut, dan alur logika jelas.						~	
17	Kejelasan instruksi, contoh, simulasi dan latihan.						~	
18	Konsitensi evaluasi dengan Rencana Pembelajaran Individual Berbasis Tema untuk Anak Berkebutuhan Khusus (Autis)	WATER THE STATE OF		PEND	IDIA S	CANADO	* Otta	
19	Ketepatan dan ketetapan alat evaluasi)	*	
20	Pemberian umpan balik terhadap hasil evaluasi		O _A		W . W.			

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STEED AND STEED OF

(b) Media Expert Judgement

No	Pernyataan	Sangat	Baik	Cukup	Kurang	Tidak	Expert's	Evaluation	Note
		Baik		Baik	Baik	Baik	Relevant	Irrelevant	
1	Kejelasan petunjuk penggunaan aplikasi		AT.	S PENI	DIDIK.		*		
2	Keefektifan media interaktif digital dalam mendukung pembelajaran untuk siswa dengan ASD	"PAINIA"				SAR	a salla	7	
3	Aplikasi media interaktif digital cocok dengan pemasangan web dan gawai cerdas (smartphones)		\\ \s \\	N D I	KSH				
4	Kemudahan pengelolaan								

aplikasi interakt						
aplikasi interakt: (maksud adalah ' and web applicat system'' dipilih berdasai hasil sun penggun	ang tuk abangkan media f digital android android android android anah da anak dengan n alal /	STILLS P	DIKS B	CHARLES THE		

5	Keterbacaan teks/tulisan						~	
6	Kualitas tampilan gambar						*	
7	Sajian animasi						~	
8	Komposisi warna		, (1)	S PENI	DIDIR	1	*	
9	Keterjelasan suara	Ve.	9			GAN	*	
10	Daya dukung suara / music	Ma	1000				*	

5. INSTRUMENT VALIDATION

The quality of the digital interactive media was determined by product evaluation based on experts' judgement. This evaluation was used as a guidance for further product development. The expert judgment sheet contains several aspects that represent the materials namely; content evaluation and media evaluation. The content evaluation sheet is used to assess the product that is used to teach vocabulary meanwhile the media evaluation sheet will be used to assess the guidance on how to use the product. Both product evaluation sheets are adapted from Findawati and Suprianto (2014) which already represented the key elements of required data to show whether product of digital interactive media had fulfilled the standard quality or not. The following tables are the content expert evaluation sheet and media expert evaluation sheet.



5.1 Content Expert Evaluation

This evaluation sheet is filled by expert judges. Give a checklist mark ($\sqrt{}$) in the scoring column and if there are comments, they can be filled in the comment column.

No	Instrument's	Item Statements	Relevant	Irrelevant	Comments
	Name				
1.	Content Expert evaluation sheet.	 The objective is clear and simple Interactivity in design Learning Objectives are in accordance with the Individual Education Plan IEPs (Alur Tujuan Pembelajaran) Learning Objectives Flow or syllabus The learning material in accordance with the Basic Competence (KD) Convenience to access 		O ST L	
		Learning Objectives Flow or syllabus 4. The learning material in accordance with the Basic Competence (KD)			

	5. Easy to understand	~
	7. The material represents the learning objectives.	~
8	8. Suitability of the game with the topic of material.	· ·
9	of the Digital Interactive Media.	AN CALL

5.2 Media Expert Evaluation Sheet

The media expert evaluation sheet is filled by expert judges. Give a checklist mark in the scoring column and if there are comments, please fill the comment column. The media expert evaluation sheet is adapted from Findawati & Suprianto, (2014)

No	Instrument's	Item Statements	Relevant	Irrelevant	Comment
	Name				
1	Media Expert evaluation	1. Clarity Instructions use the program	✓		
	sheet	2. Effectiveness of the game	*		
		3. Usability in smartphones and web	~		
		4. The ease of application management	*		

5. Readability of text/writing	~	
6. The display's quality	~	
7. The creativity of the design	~	
8. Color composition	~	
Appropriate selection of application or software or tool types for development	~	

Singaraja, 18 October 2024



Prof. Dr. Ketut Agustini, S.Si., M.Si NIP. 197408012000032001

2ND Judge of Questionnaire of Media and Content Experts Validation

Name Kadek Sintya Dewi

NIM 2239041005

Topic Digital Interactive Media Development

Title Developing Digital Interactive Media to Teach Basic Literacy and Communication in

English As A Foreign Language for Young Learners with Autism Spectrum Disorder

(ASD)

Application Literacy Quest

Validator Dr. I Gede Partha Sindu, S.Pd., M.Pd.

Institution Universitas Pendidikan Ganesha

1. Introduction

This study is conducted to develop a Digital Interactive Media for Students with ASD at a private elementary school in North Part of Bali. Based on preliminary observation, there is no specific digital interactive media used during the screen time. It is urgently needed to give the students with ASD better learning experiences. Since they have high functioning ability that they are able to read, write and speak in English, therefore, giving 15 minutes screen time with meaningful digital interactive video will be so beneficial rather than to have YouTube video only. The existing need will be solved by developing Digital Interactive Media based android and web application system by applying ADDIE Research and Design (RnD) Development Model. The development of the application will be used to help students to learn Basic English Literacy through several digital activities that can be accessed from a smartphone (through an app that can be downloaded from the Play

store). The material selected are vocabularies in the topics "My Body, My Family, My Hobby, My Environment, and My Daily Activities". The product was validated through adapting content and media expert judgment proposed by Findawati and Suprianto, (2014) and the User Experience Questionnaire (UEQ) adopted from Hinderks et al., (2019).

According to Wahono (2006) and Findawati & Suprianto (2014) some aspects of the learning media evaluation covers; software engineering aspects and learning design aspects.

- (1) Software Engineering Aspects: Effective and efficient in the development and use of the learning media. Reliable (reliability). Maintainable (can be managed easily for its maintenance). Usability (easy to use and simple in operation). The accuracy of selecting the type of application/software/tool for development. Compatibility: learning media can be installed/run on a variety of existing hardware and software. Learning media program packaging is integrated and easy to execute. Complete media learning program documentation includes: installation instructions: (clear, brief, complete), troubleshooting: clear, structured, and anticipative, and program design: clear. Reusable: part or the entire learning media program can be reused to develop other learning media.
- (2) Design aspects of learning: clarity of the purpose of learning. Relevance of learning objectives with SK/KD/Curriculum. The scope and depth of the purpose of learning. Accuracy of application of learning strategies. Interactivity. Learning motivation. Contextuality and topicality. The availability and quality of the learning media material. Material compatibility with the purpose of learning. The depths of matter. Easy to understand. Systematic, riddle and logical circuit clear. Clear descriptions, illustrations, examples, simulations, and exercises. Consistency of evaluation with learning objectives. The accuracy and precision of the evaluation tool. Feedback on evaluation results.

2. The Dimension of Each Item Statement

According to (Findawati and Suprianto, 2014) there are two dimensions of evaluating learning media including Software Engineering aspect and Learning Design aspect. The software engineering aspect measures the effectiveness and efficiency of the development of learning media include several dimensions such as reliability, maintainability, usability, appropriateness, compatibility. Meanwhile, learning design

aspect measures the clarity and relevancy between learning objective and content of the media. The aspect includes the dimension of clarity, relevancy, depth, appropriateness, interactivity, motivation.

NO	DIMENSION	DEFINITION					
1	Software Engineering Aspect	Software engineering aspect is defined as the degree					
	(Media Expert Judgements)	of the chosen platform appropriateness to the					
	AS P.	development of the product.					
2	Learning Design Aspect	Learning design aspect is defined as the degree of					
	(Content Expert Judgements)	learning objective appropriateness to content of the media					

NO	DIMENSION	SUB DIMENSION	DEFINITION
1	Software Engineering	Reliability	The degree of how reliable is the media.
		Readability	The degree of how the readability of the text available in the media.
		Compatibility	The degree of how compatible the media can be played.

		Appropriate selection of	The degree of how the media are
		tools	appropriate with the content.
2	Learning Design	Clarity	The degree of how clear is the learning objectives.
		Interactivity	The degree of how the media interact with the users.
	THE STATE OF THE S	Contextuality	The degree of how good the media represents the learning material.
		Suitability	The degree of how suitable the media are.
		Convenient	The degree of how easy to access the media.
		Usability	The degree of how convenient the media is to be accessed.

3. Blueprint of Media Expert Judgements

5.1 Content Expert Evaluation Sheet

The content expert evaluation sheet is filled by expert judges. Give a checklist mark in the scoring column and if there are comments, please fill the comment column. The content expert evaluation sheet is adapted from Findawati and Suprianto (2014).

No	Instrument's	Item Statements	
	Name	ABILL	And The state of t
1.	Content Expert evaluation sheet.	Clarity Interactivity Contextuality	 The objective is clear and simple The objective considers students' with ASD characteristics and needs Interactivity in material design Following specification theory needed by students with ASD to meet proper interactivity Learning Objectives are in accordance with the IEPs/ Rencana Pembelajaran Individual (PPI) Berbasis Tema untuk Anak Berkebutuhan Khusus (Autis) and Learning Objectives Flow. The learning material in accordance with the IEPs/ Rencana Pembelajaran Individual (PPI) Berbasis
			Tema untuk Anak Berkebutuhan Khusus (Autis).

Usability	7. Compatibility of the learning strategies.
	8. Ease to understand learning.
Consistency	9. Appropriateness of the digital interactive media
	with the learning materials.
	10. Appropriateness of the digital interactive media
	with the topic of material.
(4)	11. The accuracy and consistency of the digital
TIAL	interactive media.

5.2 Media Expert Evaluation Sheet

The media expert evaluation sheet is filled by expert judges. Give a checklist mark in the scoring column and if there are comments, please fill the comment column. The media expert evaluation sheet is adapted from Findawati and Suprianto (2014)

No	Instrument's	Indicators	Item Statements				
	Name	Dan					
1	Media Expert	Reliability	1. Instructions clarity on the use of the program				
1	1	Renability					
	evaluation		for students with ASD				
	sheet		2. Effectiveness of the digital interactive media				
			to support students with ASD learning				

Compatibility	3. Compatible with smartphones and web4. The ease of application management
Interactivity	5. Readability of text/writing6. The display's quality7. The creativity of the design8. Color composition
Appropriateness	 9. Appropriate selection of application or software or tool types for development 10. Appropriate selection of supporting elements for students with ASD: audio, visual, and reward system.

6. The Origin of Instrument

6.1 Original Content and Expert Judgement

(b) Content Expert Judgement

No	Pernyataan	Sangat	Baik	Cukup	Kurang	Tidak	Expert's		Note
		Baik		Baik	Baik	Baik	Evaluation		
							Relevant	Irrelevant	

1	Kejelasan tujuan pembelajaran						*		
2	Tujuan pembelajaran dibuat dengan mempertimbangkan karakter dan kebutuhan siswa dengan hambatan intelektual / Autis		TAS	PEND	IDIKA	10° F			
4	Media menyajikan disain isi materi yang menarik dan interaktif	DIVINE				No.	c WA	7	
5	Media dibuat dengan mengikuti teori spesifikasi yang dibutuhkan oleh siswa dengan hambatan intelektual / Autis						3		
6	Relevansi materi pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana			DIE.	2		~		

	Pembelajaran Individual Berbasis Tema/ Program Pembelajaran								
	Individual (PPI)		AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED						
	untuk	1	P.		7.00				
	Anak Berkebutuhan	1	. 3	SEVI	UIR		300		
	Khusus (Autis)	4 8	die.	_		0			
	11:1	137		-CHA	1	1	A N		
7	Cakupan dan			de	1		*	Sp.	
	kedalaman materi	2	B	16	1/6	1	4	y.	
	sesuai dengan level anak berkebutuhan	5			7	ā 10			
	khusus (Autis)		W.	17	$\mathcal{I}_{\mathcal{A}}$	3			
8									
٥	Ketepatan aktivitas yang disajikan	1		AVALAN					
	menunjang literasi	_ A		1000					
	bahasa Inggris		1			-	1/1		
	dasar meliputi;	1	TANK		And the second				
	aktivitas membaca,		OA	A 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- A	3 7	A STATE OF THE STA		
	menulis dan		S 24		3-11-11		F		
	berbicara	Section.	-		Name and Street				
9	Interaktivitas						✓		

10	Pemberian motivasi belajar						~	
11	Kontekstualitas dan aktualitas						~	
12	Kelengkapan dan kualitas digital interaktif media untuk menunjang literasi bahasa Inggris dasar meliputi; aktivitas membaca, menulis dan berbicara	SHALLER.	IIAS	PEND	IDIKA,	CANADO	* Now!	
13	Kesesuaian materi dengan pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana Pembelajaran Individual Berbasis Tema untuk Anak Berkebutuhan Khusus (Autis)			DIE CONTRACTOR	SH			
14	Kedalaman materi dengan level Anak						~	

	Berkebutuhan								
	Khusus (Autis)								
15	Kemudahan untuk						~		
	dipahami								
16	Sistematis, runut,						~		
	dan alur logika		Contract of the Contract of th			100			
	jelas.	and the same of th	6	ow N D			6.		
17	Kejelasan instruksi,		212	4-IVE	WILL.	7	1		
	contoh, simulasi	4				0			
	dan latihan.			5(11)	7	1	1 1 1 1	Diese.	
18	Konsitensi evaluasi		196	1	17.h	7		38	
	dengan Rencana	8			44	/ A			
	Pembelajaran		V3 /						
	Individual Be <mark>rb</mark> asis		197	11/	$\Im \Gamma \Lambda$	3			
	Tema untuk				THEY		J.		
	Anak	A							
	Berkebutuhan	A.		YYYY	YYY)				
	Khusus (Autis)								
19	Ketepatan dan		1				/// -		
	ketetapan alat	11	0.7	6767	CH.	2 7	A STATE OF THE PARTY OF THE PAR		
	evaluasi						F		
20	Pemberian umpan	3"	-	The same of the sa			~		
	balik terhadap hasil								
	evaluasi								
	l .					1			

(c) Media Expert Judgement

No	Pernyataan	Sangat	Baik	Cukup	Kurang	Tidak	Expert's Evaluation		Note
		Baik		Baik	Baik	Baik	Relevant	Irrelevant	
1	Kejelasan petunjuk penggunaan aplikasi		SITA	PENI	OIDIRA	NE	*		
2	Keefektifan media interaktif digital dalam mendukung pembelajaran untuk siswa dengan ASD	UNIVE					AHA	7	
3	Aplikasi media interaktif digital cocok dengan pemasangan web dan gawai cerdas (smartphones)		V & /	ND I	KSH				
4	Kemudahan pengelolaan								

	T	<u> </u>		I			T	I	
	aplikasi media								
	interaktif digital								
	D 1111								
5	Pemilihan								
	sistem yang			4					
	tepat untuk								
	mengembangkan					6			
	aplikasi media								
	interaktif digital		4 6	SHOW	1000				
	(maksudnya	All and a second	-	A 35 V					
	adalah "android		400			11-			
	and web	1/10	9	å					
	application			72	<u> </u>	1	1 / 1	New	
	system" yg	11-0	-	1	7.1		2	and the second	
	dipilih				47 47	9 7	with the		
	berdasarkan		- 151	/ 10					
	hasil survey		1		A V	-0			
	penggunaan			C 11/	THE !		7//		
	gawai pada anak		Na			No.			
	dengan dengan	1//	CA	\sim	VVV	γ	1 1 1		
	hambatan			10000					
	intelektual /			77			7/		
	Autis		THE						
				Francisco	130	3	1		
	dirumahnya	1		121)	K S I	122	Contract of the Contract of th		
	masing-masing)	1		_ 39			Ĭ.		
5	Keterbacaan		799	- 2	The same		~		
	teks/tulisan								

6	Kualitas tampilan gambar						~	
7	Sajian animasi						>	
8	Komposisi warna		and the second			á	>	
9	Keterjelasan suara	A STATE OF THE STA		PEN)IDIR	4	>	
10	Daya dukung suara / music		3175	á	Ž.	N CAN		

7. INSTRUMENT VALIDATION

The quality of the digital interactive media was determined by product evaluation based on experts' judgement. This evaluation was used as a guidance for further product development. The expert judgment sheet contains several aspects that represent the materials namely; content evaluation and media evaluation. The content evaluation sheet is used to assess the product that is used to teach vocabulary meanwhile the media evaluation sheet will be used to assess the guidance on how to use the product. Both product evaluation sheets are adapted from Findawati and Suprianto (2014) which already represented the key elements of required data to show whether product of digital interactive media had fulfilled the standard quality or not. The following tables are the content expert evaluation sheet and media expert evaluation sheet.

5.1 Content Expert Evaluation

This evaluation sheet is filled by expert judges. Give a checklist mark ($\sqrt{}$) in the scoring column and if there are comments, they can be filled in the comment column.

No	Instrument's	Item Statements	Relevant	Irrelevant	Comments
	Name				
2.	Expert evaluation sheet. 2 4	 The objective is clear and simple Interactivity in design 			
		3. Learning Objectives are in accordance with the Individual Education Plan IEPs (Alur Tujuan Pembelajaran) Learning Objectives Flow or syllabus			
		4. The learning material in accordance with the Basic Competence (KD) 5. Convenience to access			
		6. Easy to understand	~		

7. The material represents the learning objectives.	✓
8. Suitability of the game with the topic of material.	✓
9. The accuracy and consistency of the Digital Interactive	Y
Media.	CANC

5.2 Media Expert Evaluation Sheet

The media expert evaluation sheet is filled by expert judges. Give a checklist mark in the scoring column and if there are comments, please fill the comment column. The media expert evaluation sheet is adapted from Findawati & Suprianto, (2014)

No	Instrument's	Item Statements	Relevant	Irrelevant	Comment
	Name				
1	Media Expert evaluation	1. Clarity Instructions use the program	*		
	sheet	2. Effectiveness of the game	*		
		3. Usability in smartphones and web	*		
		4. The ease of application management	*		
		5. Readability of text/writing	~		

6. The display's quality	✓	
7. The creativity of the design	~	
8. Color composition	~	
Appropriate selection of application or software or tool types for development	~	

Singaraja, 18 October 2024

Dr. I Gede Partha Sindu, S.Pd., M.Pd. NIP. 197408012000032001

1) Learning Media Expert Questionnaire Validation

a.Cross Tabulation

		JUD	GE I
		Irrelevant	Relevant
JUDGE II	Irrelevant	A = 0	C = 0
,	Relevant	$\mathbf{B} = 0$	D = 10

b.Formula Calculation

Content Validity

$$\frac{10}{0+0+0+10} = \frac{10}{10} = 1$$

2) Questionnaire of Content and Language Expert Validation

a.Cross Tabulation

7	Common and the common	JUDO	GE I
		Irrelevant	Relevant
JUDGE II	Irrelevant	A = 0	C = 0
	Relevant	B = 0	D = 20

b.Formula Calculation

Content Validity
$$\frac{25}{0+0+0+25} = \frac{20}{20} = 1$$

Appendix 6. Media and Content Expert judgement sheet

MEDIA EXPERT JUDGEMENT SHEET

1ST JUDGE

Topic Digital Interactive Media Development

Title Developing Digital Interactive Media to Teach Basic Literacy and Communication in

English As A Foreign Language for Young Learners with Autism Spectrum Disorder

(ASD)

Software Literacy Quest

Expert Prof. Dr. Ketut Agustini, S.Si., M.Si

Institution Universitas Pendidikan Ganesha

Description

These evaluation sheets are used to judge the quality of Digital Interactive Media to Teach Basic Literacy and Communication in English As A Foreign Language for Young Learners with Autism Spectrum Disorder (ASD). The Digital Interactive Media developed to support or help shadow teachers in teaching basic English literacy to young learners with ASD. The material selected are vocabularies in the topics of "My Body, My Family, My Hobby, My Environment, and My Daily Activities" which were integrated to the media. Regarding this point, it is a necessity to get your response and suggestions about the content and media of this product.

1. Content Expert Evaluation

The content expert evaluation was adapted from Findawati and Suprianto, (2014).

- 1. This evaluation sheet is filled by expert judges. Give checklist mark ($\sqrt{}$) in the scoring column and if there are comments. It can be filled in the comment column.
- 2. There are 5 scopes of scoring for every component.
- 3. Give checklist mark in the scoring column with the following information
 - (5) Excellent (4) Good (3) Average (2) Poor (1) Very Poor.

No	Pernyataan	Sangat Baik (5)	Baik (4)	Cukup Baik (3)	Kurang Baik (2)	Tidak Baik (1)	Total
1	Kejelasan tujuan pembelajaran	Y		5	7)		5
2	Tujuan pembelajaran dibuat dengan mempertimbangkan karakter dan kebutuhan siswa dengan hambatan intelektual / Autis))		5
4	Media menyajikan disain isi materi yang menarik dan interaktif	IK.		1			5
5	Media dibuat dengan mengikuti teori spesifikasi yang dibutuhkan oleh	*					5

	siswa dengan hambatan intelektual / Autis					
6	Relevansi materi pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana Pembelajaran Individual Berbasis Tema/ Program Pembelajaran Individual (PPI) untuk Anak Berkebutuhan Khusus (Autis)	0101	RAN	AA A		5
7	Cakupan dan kedalaman materi sesuai dengan level anak berkebutuhan khusus (Autis)	* /	R	VEST	7	5
8	Ketepatan aktivitas yang disajikan menunjang literasi bahasa Inggris dasar meliputi; aktivitas membaca, menulis dan berbicara	Y)	7	5
9	Interaktivitas	~		9		5
10	Pemberian motivasi belajar	~				5
11	Kontekstualitas dan aktualitas	~	CONTRACTOR			5
12	Kelengkapan dan kualitas digital interaktif media untuk menunjang literasi bahasa Inggris dasar meliputi;	~				5

	aktivitas membaca, menulis dan					
	berbicara					
13	Kesesuaian materi dengan pada	•				5
13	Digital Interaktif Media "Literacy					
	Quest" dengan IEPs/ Rencana					
	Pembelajaran Individual Berbasis		No.			
	Tema untuk					
	Tema untuk	nio.				
	Anak Berkebutuhan Khusus (Autis)		40			
14	Kedalaman materi dengan level Anak	A.	_			5
	Berkebutuhan Khusus (Autis)				The state of the s	
			^_	32	7.8	_
15	Kemudahan untuk dipahami	164	70~	-13		5
16	Sistematis, runut, dan alur logika	~	1/V			5
	jelas.				77 8	
1.7	***	- Allie	2/	A./		~
17	Kejelasan instruksi, contoh, simulasi	AM			The state of the s	5
	dan latihan.		12			
18	Konsitensi evaluasi dengan Rencana		~		18	5
	Pembelajaran Individual Berbasis					
	Tema untuk	2723	1 1			
			1			
	Anak Berkebutuhan Khusus (Autis)	Pare	CONTRACTOR.			
19	Ketepatan dan ketetapan alat evaluasi		✓			5

20	Pemberian umpan balik terhadap hasil evaluasi	~					5
TOTAL							

2. Media Expert Evaluation

The media expert evaluation was adapted from Findawati and Suprianto, (2014).

- 1. This evaluation sheet is filled by expert judges. Give checklist mark ($\sqrt{}$) in the scoring column and if there are comments. It can be filled in the comment column.
- 2. There are 5 scopes of scoring for every component.
- 3. Give checklist mark in the scoring column with the following information
 - (5) Excellent (4) Good (3) Average (2) Poor (1) Very Poor.

No	Pernyata <mark>an</mark>	Sangat	Baik	The second secon	Kurang	Tidak	Total
		Baik	100	Baik	Baik	Baik	
		(5)	(4)	(3)	(2)	(1)	
			(4)		(2)	(1)	

1	Kejelasan petunjuk penggunaan aplikasi	
2	Keefektifan media interaktif digital dalam mendukung pembelajaran untuk siswa dengan ASD	
3	Aplikasi media interaktif digital cocok dengan pemasangan web dan gawai cerdas (smartphones)	DIDIR
4	Kemudahan pengelolaan aplikasi media interaktif digital	
5	Pemilihan sistem yang tepat untuk mengembangkan aplikasi media interaktif digital (maksudnya adalah "android and web application system" yg dipilih berdasarkan hasil survey penggunaan gawai pada anak dengan dengan hambatan intelektual / Autis dirumahnya masing-masing)	
5	Keterbacaan teks/tulisan	
6	Kualitas tampilan gambar	KSB
7	Sajian animasi	
8	Komposisi warna	
9	Keterjelasan suara	

10	Daya dukung suara / music	~					
TOTAL							

Singaraja, 8 November 2024



Prof. Dr. Ketut Agustini, S.Si., M.Si NIP. 197408012000032001

MEDIA EXPERT EVALUATION SHEET

Topic Digital Interactive Media Development

Title Developing Digital Interactive Media to Teach Basic Literacy and Communication in

English As A Foreign Language for Young Learners with Autism Spectrum Disorder

(ASD)

Software "Literacy Quest"

Expert Dr. I Gede Partha Sindu, S.Pd., M.Pd.

Institution Universitas Pendidikan Ganesha

Description

These evaluation sheets are used to judge the quality of Digital Interactive Media to Teach Basic Literacy and Communication in English As A Foreign Language for Young Learners with Autism Spectrum Disorder (ASD). The Digital Interactive Media developed to support or help shadow teachers in teaching basic English literacy to young learners with ASD. The material selected are vocabularies in the topics of "My Body, My Family, My Hobby, My Environment, and My Daily Activities" which were integrated to the media. Regarding this point, it is a necessity to get your response and suggestions about the content and media of this product.

1. Content Expert Evaluation

The content expert evaluation was adapted from Findawati and Suprianto, (2014).

1. This evaluation sheet is filled by expert judges. Give checklist mark ($\sqrt{}$) in the scoring column and if there are comments. It can be filled in the comment column.

ANDIDE.

- 2. There are 5 scopes of scoring for every component.
- 3. Give checklist mark in the scoring column with the following information
 - (5) Excellent (4) Good (3) Average (2) Poor (1) Very Poor.

No	Pernyataan	Sangat Baik (5)	Baik (4)	Cukup Baik (3)	Kurang Baik (2)	Tidak Baik (1)	Total
1	Kejelasan tujuan pembelajaran	*	78	=			5
2	Tujuan pembelajaran dibuat dengan mempertimbangkan karakter dan kebutuhan siswa dengan hambatan intelektual / Autis)	7		5
4	Media menyajikan disain isi materi yang menarik dan interaktif	~					5
5	Media dibuat dengan mengikuti teori spesifikasi yang dibutuhkan oleh siswa dengan hambatan intelektual /	*	B				5

6	Relevansi materi pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana Pembelajaran Individual Berbasis Tema/ Program Pembelajaran Individual (PPI) untuk Anak Berkebutuhan Khusus (Autis)	XDID)	A CONTRACTOR OF THE PARTY OF TH			5
7	Cakupan dan kedalaman materi sesuai dengan level anak berkebutuhan khusus (Autis)			CANADA		5
8	Ketepatan aktivitas yang disajikan menunjang literasi bahasa Inggris dasar meliputi; aktivitas membaca, menulis dan berbicara			HA .		5
9	Interaktivitas	~	7)	Į.	1	5
10	Pemberian motivasi belajar	*	7			5
11	Kontekstualitas dan aktualitas	~	4 10			5
12	Kelengkapan dan kualitas digital interaktif media untuk menunjang literasi bahasa Inggris dasar meliputi; aktivitas membaca, menulis dan berbicara	~	- Andrews			5

13	Kesesuaian materi dengan pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana Pembelajaran Individual Berbasis Tema untuk Anak Berkebutuhan Khusus (Autis)	5							
14	Kedalaman materi dengan level Anak Berkebutuhan Khusus (Autis)	5							
15	Kemudahan untuk dipahami	5							
16	Sistematis, runut, dan alur logika jelas.	5							
17	Kejelasan instruksi, contoh, simulasi dan latihan.	5							
18	Konsitensi evaluasi dengan Rencana Pembelajaran Individual Berbasis Tema untuk Anak Berkebutuhan Khusus (Autis)	5							
19	Ketepatan dan ketetapan alat evaluasi	5							
20	Pemberian umpan balik terhadap hasil evaluasi	5							
	TOTAL								

2. Media Expert Evaluation

The media expert evaluation was adapted from Findawati and Suprianto, (2014).

- 1. This evaluation sheet is filled by expert judges. Give checklist mark ($\sqrt{\ }$) in the scoring column and if there are comments. It can be filled in the comment column.
- 2. There are 5 scopes of scoring for every component.
- 3. Give checklist mark in the scoring column with the following information;
 - (5) Excellent (4) Good (3) Average (2) Poor (1) Very Poor.

No	Pernyataan	Sangat Baik (5)	Baik (4)	Cukup Baik (3)	Kurang Baik (2)	Tidak Baik (1)	Total
1	Kejelasan petunj <mark>u</mark> k penggunaan aplikasi	*	¥))		
2	Keefektifan media interaktif digital dalam mendukung pembelajaran untuk siswa dengan ASD) IK	SH				
3	Aplikasi media interaktif digital cocok dengan pemasangan web dan gawai cerdas (smartphones)		*				

4	Kemudahan pengelolaan aplikasi media interaktif digital	~				
5	Pemilihan sistem yang tepat untuk mengembangkan aplikasi media interaktif digital (maksudnya adalah "android and web application system" yg dipilih berdasarkan hasil survey penggunaan gawai pada anak dengan dengan hambatan intelektual / Autis dirumahnya masing-masing)	ENDI	DIKA	200		
5	Keterbacaan teks/tulisan	1	~			
6	Kualitas tampilan gambar	~	(4g)	Ě		
7	Sajian animasi	ترط	7)		
8	Komposisi warna	//	(REV)		7,	
9	Keterjelasan suara	VVY				
10	Daya dukung suara / music	~			1/4	

Singaraja, 8 November 2024

Dr. I Gede Partha Sindu, S.Pd., M.Pd.

NIP. 197408012000032001

CONTENT EXPERT JUDGEMENT SHEET

Topic Digital Interactive Media Development

Title Developing Digital Interactive Media to Teach Basic Literacy and Communication in

English As A Foreign Language for Young Learners with Autism Spectrum Disorder

(ASD)

Software "Literacy Quest"

Expert Associate Prof. Thilagavathi Shanmuganathan, Ph.D

Institution Universiti of Malaya

Description

These evaluation sheets are used to judge the quality of Digital Interactive Media to Teach Basic Literacy and Communication in English As A Foreign Language for Young Learners with Autism Spectrum Disorder (ASD). The Digital Interactive Media developed to support or help shadow teachers in teaching basic English literacy to young learners with ASD. The material selected are vocabularies in the topics of "My Body, My Family, My Hobby, My Environment, and My Daily Activities" which were integrated to the media. Regarding this point, it is a necessity to get your response and suggestions about the content and media of this product.

1. Content Expert Evaluation

The content expert evaluation was adapted from Findawati and Suprianto, (2014).

- 1. This evaluation sheet is filled by expert judges. Give checklist mark ($\sqrt{}$) in the scoring column and if there are comments. It can be filled in the comment column.
- 2. There are 5 scopes of scoring for every component.
- 3. Give checklist mark in the scoring column with the following information;
 - (5) Excellent (4) Good (3) Average (2) Poor (1) Very Poor.

No	Pernyataan	Sangat Baik (5)	Baik (4)	Cukup Baik (3)	Kurang Baik (2)	Tidak Baik (1)	Total
1	Kejelasan tujuan pembelajaran	*	4	("		5
2	Tujuan pembelajaran dibuat dengan mempertimbangkan karakter dan kebutuhan siswa dengan hambatan intelektual / Autis	IKS	E A				5
4	Media menyajikan disain isi materi yang menarik dan interaktif	>					5

5	Media dibuat dengan mengikuti teori spesifikasi yang dibutuhkan oleh siswa dengan hambatan intelektual / Autis	✓				5
6	Relevansi materi pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana Pembelajaran Individual Berbasis Tema/ Program Pembelajaran Individual (PPI) untuk Anak Berkebutuhan Khusus (Autis)	NDID.	8, E	CAMESII		5
7	Cakupan dan kedalaman materi sesuai dengan level anak berkebutuhan khusus (Autis)					5
8	Ketepatan aktivitas yang disajikan menunjang literasi bahasa Inggris dasar meliputi; aktivitas membaca, menulis dan berbicara					5
9	Interaktivitas					5
10	Pemberian motivasi belajar	-	TO PERSON			5
11	Kontekstualitas dan aktualitas	~				5

12	Kelengkapan dan kualitas digital interaktif media untuk menunjang literasi bahasa Inggris dasar meliputi; aktivitas membaca, menulis dan berbicara	*				5
13	Kesesuaian materi dengan pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana Pembelajaran Individual Berbasis Tema untuk Anak Berkebutuhan Khusus (Autis)	NDID)		GAMES		5
14	Kedalaman materi dengan level Anak Berkebutuhan Khusus (Autis)	35				5
15	Kemudahan untuk dipahami		~	A		5
16	Sistematis, runut, dan alur logika jelas.	~	\mathbb{Z}))	5
17	Kejelasan instruksi, contoh, simulasi dan latihan.	LE S	7			5
18	Konsitensi evaluasi dengan Rencana Pembelajaran Individual Berbasis Tema untuk Anak Berkebutuhan Khusus (Autis)		*			5

19	Ketepatan dan ketetapan alat evaluasi		~			5	
20	Pemberian umpan balik terhadap hasil evaluasi	*				5	
	TOTAL 9						



2. Media Expert Evaluation

The media expert evaluation was adapted from Findawati and Suprianto, (2014).

- 1. This evaluation sheet is filled by expert judges. Give checklist mark ($\sqrt{}$) in the scoring column and if there are comments. It can be filled in the comment column.
- 2. There are 5 scopes of scoring for every component.
- 3. Give checklist mark in the scoring column with the following information;
 - (5) Excellent (4) Good (3) Average (2) Poor (1) Very Poor.

No	Pernyataan	Baik		Cukup Baik	Kurang Baik	Tidak Baik	Total
	(3	(5)	(4)	(3)	(2)	(1)	
1	Kejelasan petunjuk penggunaan aplikasi	*)	1		
2	Keefektifan media interaktif digital dalam mendukung pembelajaran untuk siswa dengan ASD	Y	S S				
3	Aplikasi media interaktif digital cocok dengan pemasangan web dan gawai cerdas (smartphones)		*				
4	Kemudahan pengelolaan aplikasi media interaktif digital	*					

5	Pemilihan sistem yang tepat untuk		~				
	mengembangkan aplikasi media						
	interaktif digital (maksudnya adalah						
	"android and web application system"						
	yg dipilih berdasarkan hasil survey	A					
	penggunaan gawai pada anak dengan		Section 1				
	dengan hambatan intelektual / Autis	-		b			
	dirumahnya masing-masing)	- 1 5 7					
5	Keterbacaan teks/tulisan	BLUI					
6	Kualitas tampilan gambar	-(1)		The state of			
7	Sajian anim <mark>as</mark> i	1	7%	7	X 77	P*	
8	Komposisi warna	~	*	į Nį			
9	Keterjelasan suara	/	1		77 8		
10	Daya dukung suara / music	*		1			

Singaraja, 8 November 2024

Associate Prof. Thilagavathi Shanmuganathan, Ph.D

CONTENT EXPERT JUDGEMENT SHEET

Topic Digital Interactive Media Development

Title Developing Digital Interactive Media to Teach Basic Literacy and Communication in

English As A Foreign Language for Young Learners with Autism Spectrum Disorder

(ASD)

Software Literacy Quest

Expert Dr. Sharala Subramaniam

Institution Taylor's University Malaysia

Description

These evaluation sheets are used to judge the quality of Digital Interactive Media to Teach Basic Literacy and Communication in English As A Foreign Language for Young Learners with Autism Spectrum Disorder (ASD). The Digital Interactive Media developed to support or help shadow teachers in teaching basic English literacy to young learners with ASD. The material selected are vocabularies in the topics of "My Body, My Family, My Hobby, My Environment, and My Daily Activities" which were integrated to the media. Regarding this point, it is a necessity to get your response and suggestions about the content and media of this product.

1. Content Expert Evaluation

The content expert evaluation was adapted from Findawati and Suprianto, (2014).

- 1. This evaluation sheet is filled by expert judges. Give checklist mark ($\sqrt{}$) in the scoring column and if there are comments. It can be filled in the comment column.
- 2. There are 5 scopes of scoring for every component.
- 3. Give checklist mark in the scoring column with the following information
 - (5) Excellent (4) Good (3) Average (2) Poor (1) Very Poor.

No	Pernyataan	Sangat Baik (5)	Baik (4)	Cukup Baik (3)	Kurang Baik (2)	Tidak Baik (1)	Total
1	Kejelasan tujuan pembelajaran	~	IN				5
2	Tujuan pemb <mark>e</mark> lajaran dibuat dengan mempertimbangkan karakter dan kebutuhan siswa dengan hambatan intelektual / Autis	*)			5
4	Media menyajikan disain isi materi yang menarik dan interaktif	TK S	R A				5
5	Media dibuat dengan mengikuti teori spesifikasi yang dibutuhkan oleh siswa dengan hambatan intelektual / Autis	~					5

a PENDIDIA.

6	Relevansi materi pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana Pembelajaran Individual Berbasis Tema/ Program Pembelajaran Individual (PPI) untuk Anak Berkebutuhan Khusus (Autis)	NDID	I P			5
7	Cakupan dan kedalaman materi sesuai dengan level anak berkebutuhan khusus (Autis)			CANADO		5
8	Ketepatan aktivitas yang disajikan menunjang literasi bahasa Inggris dasar meliputi; aktivitas membaca, menulis dan berbicara			W.		5
9	Interaktivitas	*)	T Part	5
10	Pemberian motivasi belajar	*	7	9		5
11	Kontekstualitas dan aktualitas	*	A		gar.	5
12	Kelengkapan dan kualitas digital interaktif media untuk menunjang literasi bahasa Inggris dasar meliputi; aktivitas membaca, menulis dan berbicara	~				5

13	Kesesuaian materi dengan pada Digital Interaktif Media "Literacy Quest" dengan IEPs/ Rencana Pembelajaran Individual Berbasis Tema untuk Anak Berkebutuhan Khusus (Autis)		5
14	Kedalaman materi dengan level Anak Berkebutuhan Khusus (Autis)		5
15	Kemudahan untuk dipahami	E. L.	5
16	Sistematis, runut, dan alur logika jelas.		5
17	Kejelasan instruksi, contoh, simulasi Udan latihan.		5
18	Konsitensi evaluasi dengan Rencana Pembelajaran Individual Berbasis Tema untuk Anak Berkebutuhan Khusus (Autis)		5
19	Ketepatan dan ketetapan alat evaluasi		5
20	Pemberian umpan balik terhadap hasil evaluasi		5
	TOTAL		95

2. Media Expert Evaluation

The media expert evaluation was adapted from Findawati and Suprianto, (2014).

- 1. This evaluation sheet is filled by expert judges. Give checklist mark ($\sqrt{}$) in the scoring column and if there are comments. It can be filled in the comment column.
- 2. There are 5 scopes of scoring for every component.
- 3. Give checklist mark in the scoring column with the following information
 - (5) Excellent (4) Good (3) Average (2) Poor (1) Very Poor.

No	Pernyataan	Sangat Sesuai	Baik	Cukup Baik (3)	Kurang Baik	Tidak Baik	Total
		7	(4)	()	(2)	(1)	
1	Kejelasan petunjuk penggunaan aplikasi	~)			
2	Keefektifan media interaktif digital dalam mendukung pembelajaran untuk siswa dengan ASD	Y	S e B l				
3	Aplikasi media interaktif digital cocok dengan pemasangan web dan gawai cerdas (smartphones)		*				
4	Kemudahan pengelolaan aplikasi media interaktif digital	*					

5	Pemilihan sistem yang tepat untuk		✓				
	mengembangkan aplikasi media						
	interaktif digital (maksudnya adalah						
	"android and web application system"						
	yg dipilih berdasarkan hasil survey	A					
	penggunaan gawai pada anak dengan		to and the second				
	dengan hambatan intelektual / Autis	-07		En.			
	dirumahnya masing-masing)						
5	Keterbacaan teks/tulisan	HUNE	111120		6.		
	Treterouedan teks/tunisan	Sept.					
6	Kualitas tampilan gambar			C. A. A.			
7	Sajian anim <mark>a</mark> si	8	7%	6	X 77	P*	
8	Komposisi warna	*		1			
9	Keterjelasan suara				7 8		
10	Daya dukung suara / music	~		4	and the second		

Singaraja, 8 November 2024

Dr. Sharala Subramaniam

Appendix 7. The analysis of measuring the quality of the media

The analysis of measuring the quality of the product is shown as follows:

1. Content evaluation sheet from judge 1

Percentage =
$$\frac{Actual \, Score}{SMI} \times 100\% = \frac{95}{100} \times 100\% = 95\%$$

2. Content evaluation sheet from the judge 2

Percentage =
$$\frac{Actual \, Score}{SMI} \times 100\% = \frac{96}{100} \times 100\% = 96\%$$

3. Media evaluation sheet from judge 1

Percentage =
$$\frac{Actual\ Score}{SMI} \times 100\% = \frac{46}{50} \times 100\% = 92\%$$

4. Media evaluation sheet from judge 2

Percentage =
$$\frac{Actual\ Score}{SMI} \times 100\% = \frac{45}{50} \times 100\% = 90\%$$

Appendix 8. Appendix 8. Reliability Testing of Questionnaire for Content and Media Evaluation

1) Content Expert Evaluation Questionnaire

Intraclass Correlation Coefficient

	Intraclass		nfidence rval	FΤ	est with	Гrue Valu	ie 0
	Correlati	Lower	Upper	Valu			
	on ^b	Bound Bound		e	df1	df2	Sig
Single	.655 ^a	.309	.847	4.789	19	19	.001
Measures							
Average	.791°	.791° .472		4.789	19	19	.001
Measures							

2) Media Expert Evaluation Questionnaire

Intraclass Correlation Coefficient

		95% Co	nfidence									
	Intraclass	Inte	rval	FT	F Test with True Value 0							
	Correlati	Lower	Upper	Valu								
	on ^b	Bound	Bound	e	df1	df2	Sig					
Single	.640 ^a	.062	.897	4.556	9	9	.017					
Measures												
Average	.780°	.116	.945	4.556	9	9	.017					
Measures												

Appendix 9. Data of User Experience Questionnaire

Raw Data of UEQ

Input Time	Name	Add ress	Email	1	2	3	4	5	6	7	8	9	1 0	1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2	2 2	2 3	2 4	2 5	2 6
2024/12/07 10:54:20 AM	User 1	IDN	putribalq is460@g mail.co m	6	7	5	2	1	5	6	7	4	6	6	2	4	6	1	4	1	4	4	5	1	7	1	3	1	5
2024/12/07 10:56:36 AM	User 2	IDN	ningtian aratih28 @gmail. com	7	6	2	1	1	6	7/	6	2	2	6	1	6	7	6	6	2	2	2	6	2	7	3	2	2	6
2024/12/07 10:56:50 AM	User 3	IDN	sinta285 2@gmail .com	7	6	1	1	2	6	6	5	1	2	6	1	7	7	6	7	1	1	1	6	1	7	2	1	1	7
2024/12/07 10:56:55 AM	User 4	IDN	ranintaca ndra@g mail.co m	7	7	2	3	3	7	7	7	1 / 医	7	7	1	7	7	7	7	1	1	1	7	1	7	1	1	1	7
2024/12/07 10:57:19 AM	User 5	IDN	dewitant ra2003@ gmail.co m	7	7	1	2	1	6	7	6	2	2	7	2	7	6	7	6	2	1	1	6	1	5	3	1	1	7

2024/12/07 10:57:31 AM	User 6	IDN	kepinedo t@gmail .com	6	6	3	2	3	5	6	4	5	3	6	3	5	6	6	6	2	3	3	5	1	7	2	3	2	6
2024/12/07 10:57:46 AM	User 7	IDN	luhmerd ani982@ gmail.co m	7	6	2	1	3	6	6	4	3	4	6	2	7	6	5	6	2	1	2	5	3	6	3	2	1	6
2024/12/07 10:57:47 AM	User 8	IDN	ronaprati wi30@g mail.co m	7	6	2	400 P	3	6	6	5	4	4	6	2	6	6	3	6	2	2	3	6	2	6	2	2	2	6
2024/12/07 10:57:51 AM	User 9	IDN	ratihdew ayu409 @gmail. com	7	6	3	3	2	7	7	6	3	2	6	1	4	6	2	6	2	2	2	6	1	5	3	1	2	6
2024/12/07 10:510:29 AM	User 10	IDN	pradnya naparadi la1@gm ail.com	5	6	2	1	1	5	6	6	2	4	6	2	6	6	5	6	3	2	2	6	2	6	2	2	2	6
2024/12/07 10:510:37 AM	User 11	IDN	tari.naty a@gmail .com	7	6	1	2	41	5	7	7	2	3	4	1	7	6	6	7	1	4	2	7	3	7	3	1	2	7
2024/12/07 10:510:41 AM	User 12	IDN	ninapra winandy a@gmail .com	7	6	5	1	1	7	6	7	2	6	6	1	5	6	6	6	2	1	2	6	2	6	2	1	1	6

2024/12/07 10:59:09 AM	User 13	IDN	risarahay u70@gm ail.com	1	1	7	7	1	7	7	1	7	1	7	7	7	1	7	1	1	1	7	1	7	1	1	1	1	5
2024/12/07 10:59:19 AM	User 14	IDN	anayacin ta5@gm ail.com	6	7	1	1	2	6	7	2	1	1	7	2	7	6	1	6	1	1	2	6	2	6	1	1	2	6
2024/12/07 10:59:22 AM	User 14	IDN	aliyasavi ra0@gm ail.com	7	7	2	1	1	7	7	7	3	5	6	1	7	7	2	7	1	1	2	6	1	7	7	1	1	6
2024/12/07 10:59:25 AM	User 15	IDN	dewisari anii16@ gmail.co m	7	7		1	2	7	7	6			7	2	7	7	7	6	1	2	2	7	1	7	1	1	2	1
2024/12/07 10:59:31 AM	User 16	IDN	putueka mei2017 @gmail. com	7	7	5	1	1	5	5	7	4	4	6	3	7	6	4	7	1	3	2	4	1	5	2	3	2	6
2024/12/07 10:59:310 AM	User 17	IDN	dwimay oga1212 @gmail. com	7	4	7	1	3	6	5	7	4	2	6	1	7	5	7	6	2	1	2	7	1	6	3	1	1	7
2024/12/07 10:59:47 AM	User 18	IDN	dindapt3 007@gm ail.com	7	6	4	2	1	6	7	5	5	3	7	1	6	6	5	7	1	2	3	5	2	4	3	2	2	6
2024/12/07 10:59:47 AM	User 19	IDN	rapiyanti @gmail. com	7	7	2	1	1	7	7	7	2	3	7	2	6	7	6	7	2	1	2	7	2	6	3	2	1	6

2024/12/07 9:00:34 AM	User 20	IDN	mudayan a@gmail .com	2	6	6	2	2	7	6	6	2	6	6	2	6	7	2	6	1	2	2	6	7	7	1	2	1	1
2024/12/07 9:00:43 AM	User 21	IDN	winarsa @gmail. com	5	6	1	1	1	7	5	6	2	6	7	2	6	6	6	6	2	2	1	6	1	6	2	3	1	6
2024/12/07 9:00:44 AM	User 22	IDN	vicap@g mail.co m	1	1	3	5	2	1	2	6	4	7	1	4	5	2	1	2	5	4	6	1	7	2	5	3	4	5
2024/12/07 9:00:54 AM	User 23	IDN	meiarta @gmail. com	1	2	6	2	7	1	1		3	6	2	1	6	6	3	6	1	1	1	7	1	7	1	1	1	7
2024/12/07 9:01:410 AM	User 24	IDN	santini@ gmail.co m	7	5	1	2	1	7	7	7	1	5	7	1	7	6	7	7	1	1	2	7	1	7	6	1	1	1
2024/12/07 9:01:56 AM	User 25	MY	nshsabri @gmail. com	6	7	1	2	3	5	7	3	4	5	6	7	7	7	4	7	1	1	1	2	1	5	3	4	1	2
2024/12/07 9:03:19 AM	User 26	MY	Leeyann a82@gm ail.com	2	2	7	6	6		4	7	4	7	5	5	7	4	4	7	7	1	7	5	7	6	7	6	5	3
2024/12/07 9:04:50 AM	User 27	MY	nurdiyan ahmatda ud@gma il.com	1	7	1	1	1	7	7	7	4	4	2	3	5	3	5	3	3	3	4	4	3	6	3	2	1	2

2024/12/07 9:06:29 AM	User 28	MY	joanne@ gmail.co m	6	6	1	3	1	7	7	5	2	2	7	1	6	7	7	7	1	3	1	5	1	6	1	2	1	6
2024/12/07 9:09:21 AM	User 29	MY	sharala @gmail. com	5	4	5	4	7	6	5	7	6	5	7	6	5	7	5	4	6	7	6	6	2	7	2	4	3	5
2024/12/07 12:54:43	User 30	My	sharifahs alleh@g mail.co m	7	7	7	1		7	7	6		1 D)	7	7	7	7	7	7	1	1	1	7	1	7	1	1	1	7
	TOTAL		1	1 7 2	1 7 4	9	6 4	6	1 7 8	1 8 7	1 7 3	9	1 1 9	1 8 2	7	1 9 2	1 8 2	1 5 0	1 8 2	6 0	6 2	7 9	1 7 0	6 9	1 8 4	8 0	6	5 0	1 6 3



Appendix 10. Result of UEQ

Item	Mean	Variance	Std. Dev.	No.	Left	Right	Scale
1	1.5	4.9	2.2	31	annoying	enjoyable	Attractiveness
2	1.6	3.2	1.8	31	not understandable	understandable	Perspicuity
3	0.9	4.8	2.2	31	creative	dull	Novelty
4	1.9	2.4	1.5	31	easy to learn	difficult to learn	Perspicuity
5	1.9	2.9	1.7	31	valua <mark>bl</mark> e	inferior	Stimulation
6	1.7	3.1	1.8	31	boring	exciting	Stimulation
7	2.0	2.2	1.5	31	not interesting	interesting	Stimulation
8	1.6	3.1	1.8	31	unpredictable	predictable	Dependability
9	1.1	2.5	1.6	31	fast	slow	Efficiency
10	0.2	3.8	2.0	31	inventive	conventional	Novelty
11	1.9	2.4	1.6	31	obstructive	supportive	Dependa <mark>bi</mark> lity
12	1.7	3.1	1.8	31	good	bad \lambda	Attractive <mark>n</mark> ess
13	2.2	0.9	0.9	31	complicated	easy	Perspicuity
14	1.9	2.2	1.5	31	unlikable	pleasing	Attractiveness
15	0.8	4.1	2.0	31	usual	leading edge	Novelty
16	1.9	2.3	1.5	31	unpleasant	pleasant	Attractiveness
17	2.1	2.3	1.5	31	secure	not secure	Dependability
18	2.0	1.9	1.4	31	motivating	demotivating	Stimulation
19	1.5	3.1	1.7	31	meets expectations	does not meet expectations	Dependability
20	1.5	2.7	1.6	31	in <mark>efficient</mark>	efficient	Efficiency
21	1.8	3.9	2.0	31	clear	confusing	Perspicuity
22	1.9	2.1	1.4	31	impractical	practical	Efficiency
23	1.4	2.8	1.7	31	organized	cluttered	Efficiency
24	2.0	1.4	1.2	31	attractive	unattractive	Attractiveness

25	2.4	0.9	1.0	31	frie	ndly		unfriendly	A	Attractivene	ess		
26	1.3	3.7	1.9	31	conse	rvative	i	nnovative	1	Novelty			
N0	Item					1	2	3	4	5	6	7	Scale
1	anno	ying/enjoya	ble			4	2	0	0	3	5	17	Attractiveness
2	not u	ınderstanda	ble/unders	tandable		2	2	0	2	1	13	11	Perspicuity
3	dull/	creative				4	2	4	1	3	7	10	Novelty
4	diffic	cult to learn/	easy to lea	ırn		1	1	1	1	3	9	15	Perspicuity
5	infer	ior/valuable)			2	1.	0	0	6	6	16	Stimulation
6	borir	ng/exciting				3	0	0	0	6	9	13	Stimulation
7	not i	nteresting/i	nteresting		1/4	1	1	0	1	4	8	16	Stimulation
8	unpr	edictable/p	redictable			2		1	2	4	9	12	Dependability
9	slow	/fast		1860		1	_1	2	8	4	<i>y</i> 9	6	Efficiency
10	conv	entional/inv	entive/	- 10	- 8	3	5	4	5	4	6	4	Novelty
11	obst	ructive/supp	ortive	1	5	1	2	0	1	1	14	12	Dependability
12	bad/	good				2	1	1	1	3	10	13	Attractiveness
13	com	olicated/eas	, y			0	0	0	2	5	9	15	Perspicuity
14	unlik	able/pleasir	ng	N.		1	1	1	1	1	15	11	Attractiveness
15	usua	I/leading ed	ge	_	77	3	3	2	3	5	7	8	Novelty
16	unpl	easant/plea:	sant			1	1	1	2	0	14	12	Attractiveness
17	not s	ecure/secur	re			1	1	1	0	2	10	16	Dependability
18	dem	otivating/m	otivating			1	0	0	3	4	8	15	Stimulation
19		not meet ex	xpectations	s/meets		2	2		2	3	14	8	Dependability
20	ineff	icient/efficie	ent		900	2	1	0	2	6	12	8	Efficiency
21	confi	using/clear			-	4	0	0	0	3	8	16	Perspicuity
22	impr	actical/prac	tical			1	1	0	1	4	11	13	Efficiency
23	clutt	ered/organi	zed			2	1	1	0	10	8	9	Efficiency
24	unat	tractive/attr	ractive			0	1	0	2	5	9	14	Attractiveness

25	unfriendly/friendly	0	0	1	1	1	10	18	Attractiveness
26	conservative/innovative	3	2	1	0	4	14	7	Novelty



Appendix 11. Surat Pengantar Penilai Ahli



KEMENTERIAN PENDIDIKAN TINGGI, SAINS, DAN TEKNOLOGI

UNIVERSITAS PENDIDIKAN GANESHA PROGRAM PASCASARJANA

Jalan Udayana Nomor III Singaraja, Bali 81116 Telepon 981999446444 Laman <u>www.nacca.codiksha.ac.id</u>

Nomor : 579 /UN48.14.13/KM/2025

Lamp : 1 (satu) gabung

Perihal : Pengantar Judges (Ahli Media)

Kepada

Yth. : 1. Prof. Dr. Ketut Agustini, S.Si., M.Si.

2. Dr. I Gede Partha Sindu, S.Pd., M.Pd

Di - Tempat

Dengan hormat, berkenan dengan persiapan penyusunan Disertasi mahasiswa Program Studi **Pendidikan Bahasa Inggris (S3)** Program Pascasarjana Undiksha Singaraja, dimohon kesediaan Bapak/lbu untuk dapat memeriksa instrument (sebagai Judges) penelitian mahasiswa berikut:

Nama : Kadek Sintya Dewi

NIM : 223941005

Program Studi : Pendidikan Bahasa Inggris (S3)

Judul Disertasi : Developing Digital Interactive Media to Teach Basic Literacy and

Communication in English as a Foreign Language to Young

Learners with Autism Spectrum Disorder (ASD)

Demikianlah kami sampaikan atas perhatian dan kerjasamanya kami sampaikan terimakasih.

Singaraja, 18 Oktober 2024

Koordinator Program Studi Penglidikan Bahasa Inggris (S3),

Prof. Dr. Ni Nyoman Padmadewi, M.A.



KEMENTERIAN PENDIDIKAN TINGGI, SAINS, DAN TEKNOLOGI

UNIVERSITAS PENDIDIKAN GANESHA PROGRAM PASCASARJANA

Jalan Udayana Nomor II Singaraja, Bali 81116 Telepon 081999446444 Laman <u>sewa asaca andikaba se id</u>

Nomor : 580 /UN48.14.13/KM/2025

Lamp : 1 (satu) gabung

Perihal : Pengantar Judges (Ahli Isi dan Bahasa Inggris)

Kepada

Yth. : 1. Associate Prof. Thilagavathi Shanmuganathan, Ph.D.

2. Dr. Sharala Subramaniam

Di - Tempat

Dengan hormat, berkenan dengan persiapan penyusunan Disertasi mahasiswa Program Studi **Pendidikan Bahasa Inggris (S3)** Program Pascasarjana Undiksha Singaraja, dimohon kesediaan Bapak/lbu untuk dapat memeriksa instrument (sebagai Judges) penelitian mahasiswa berikut:

Nama : Kadek Sintya Dewi

NIM : 223941005

Program Studi : Pendidikan Bahasa Inggris (S3)

Judul Disertasi : Developing Digital Interactive Media to Teach Basic Literacy and

Communication in English as a Foreign Language to Young

Learners with Autism Spectrum Disorder (ASD)

Demikianlah kami sampaikan atas perhatian dan kerjasamanya kami sampaikan terimakasih.

Singaraja, 18 Oktober 2024

Koordinator Program Studi Pengdikan Bahasa Inggris (S3),

Prof. Dr. Ni Nyoman Padmadewi, M.A.



KEMENTERIAN PENDIDIKAN TINGGI. SAINS, DAN TEKNOLOGI

UNIVERSITAS PENDIDIKAN GANESHA PROGRAM PASCASARJANA

Jalan Udayana Nomor II Singanga, Bali 81116 Telepon 081999446444 Laman <u>www.pacca.codiksha.ac.id</u>

Nomor : 580 /UN48.14.13/KM/2024

Lamp : 1 (satu) gabung

Perihal : Pengantar Judges (Ahli IEPs dan Materi Bahasa Inggris untuk Siswa dengan

ASD)

Kepada

Yth. : 1. Dr. Sunitha Sivakumaran

2. Shartfah bt Salleh

Di - Tempat

Dengan hormat, berkenan dengan persiapan penyusunan Disertasi mahasiswa Program Studi **Pendidikan Bahasa Inggris (S3)** Program Pascasarjana Undiksha Singaraja, dimohon kesediaan Bapak/Ibu untuk dapat memeriksa instrument (sebagai Judges) penelitian mahasiswa berikut:

Nama : Kadek Sintya Dewi

NIM : 223941005

Program Studi : Pendidikan Bahasa Inggris (S3)

Judul Disertasi : Developing Digital Interactive Media to Teach Basic Literacy and

Communication in English as a Foreign Language to Young

Learners with Autism Spectrum Disorder (ASD)

Demikianlah kami sampaikan atas perhatian dan kerjasamanya kami sampaikan terimakasih.

Singaraja, 18 Mei 2024

Koordinator Program Studi Penglidikan Bahasa Inggris (S3),

Prof. Dr. Ni Nyoman Padmadewi, M.A.

Appendix 12. Surat Ijin Pengambilan Data



KEMENTERIAN PENDIDIKAN TINGGI, SAINS, DAN TEKNOLOGI

UNIVERSITAS PENDIDIKAN GANESHA PROGRAM PASCASARJANA

Jalan Udayana Nomor 11 Singaraja, Bali 81116 Telepon 081999446444 Laman www.gasca.undiksha.ac.id

Singaraja, 15 Mei 2024

Nomor : 580 /UN48.14.13/KM/2024 Hal : Mohon Ijin Pengambilan Data Yth : Kepala Sekolah NBBS

Di - Tempat

Dengan hormat, dalam rangka pengumpulan data untuk Penelitian Disertasi mahasiswa Program Pascasarjana Universitas Pendidikan Ganesha, kami mohon kesediaan Bapak/Ibu untuk dapat menerima dan mengijinkan mahasiswa kami sebagai berikut:

Nama : Kadek Sintya Dewi

NIM : 223941005 Semester : 4 (Empat)

Program Studi : Pendidikan Bahasa Inggris (S3)

Judul Disertasi : Developing Digital Interactive Media to Teach Basic Literacy and

Communication in English as a Foreign Language to Young

Learners with Autism Spectrum Disorder (ASD)

Untuk mendapatkan data dan informasi yang dibutuhkan oleh mahasiswa dalam melakukan penelitian. Atas perhatian, perkenaan dan kerjasama yang baik kami ucapkan terimakasih.

Menyetujui,

Promotor

Co-Promotor I

Co-Promotor II

Prof. Dr. Ni Nyoman Padmadewi, M. A. Prof. Dra. L. P. Artini, M.A., Ph.D. Prof. Dr. N. L. P. Sri Adnyani, S.Pd., M.Hum.

Mengetahui, Koordinator, Program Studi Pendidikan Bahasa Inggris (S3),

Prof. Dr. Ni Nyoman Padmadewi, M.A



KEMENTERIAN PENDIDIKAN TINGGI, SAINS, DAN TEKNOLOGI

UNIVERSITAS PENDIDIKAN GANESHA PROGRAM PASCASARJANA

Jalan Udayana Nomor 11 Singaraja, Bali 81116 Telepon 081999446444 Laman <u>www.pace.undiksha.ac.id</u>

Singaraja, 15 Mei 2024

Nomor : 580 /UN48.14.13/KM/2024 Hal : Mohon Ijin Pengambilan Data

Yth : Kepala Sekolah Taarana (Pusat Pendidikan Khas Sinaran)

Di - Tempat

Dengan hormat, dalam rangka pengumpulan data untuk Penelitian Disertasi mahasiswa Program Pascasarjana Universitas Pendidikan Ganesha, kami mohon kesediaan Bapak/Ibu untuk dapat menerima dan mengijinkan mahasiswa kami sebagai berikut:

Nama : Kadek Sintya Dewi

NIM : 223941005 Semester : 4 (Empat)

Program Studi : Pendidikan Bahasa Inggris (S3)

Judul Disertasi : Developing Digital Interactive Media to Teach Basic Literacy and

Communication in English as a Foreign Language to Young

Learners with Autism Spectrum Disorder (ASD)

Untuk mendapatkan data dan informasi yang dibutuhkan oleh mahasiswa dalam melakukan penelitian. Atas perhatian, perkenaan dan kerjasama yang baik kami ucapkan terimakasih.

Menyetujui,

Promotor Co-Promotor I Co-Promotor II

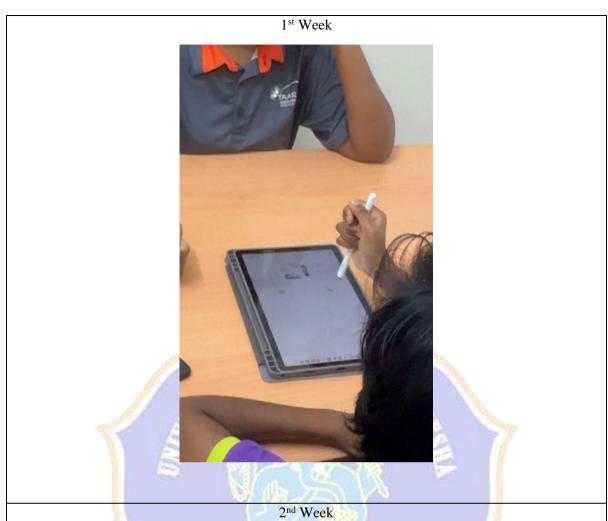
Prof. Dr. Ni Nyoman Padmadewi, M. A. Prof. Dra. L. P. Artini, M.A., Ph.D. Prof. Dr. N. L. P. Sri Adnyani, S.Pd., M.Hum.

Mengetahui, Koordinator, Program Studi Pendidikan Bahasa Inggris (S3),

Prof. Dr. Ni Nyoman Padmadewi, M.A NIP 196202021988032001

Appendix 13. Dokumentasi Proses Pengumpulan Data

Taarana School, Malaysia.







3rd Week



4th Week









An Inclusive Elementary in North Bali, Indonesia.

1st Week

Sensored

2nd Week



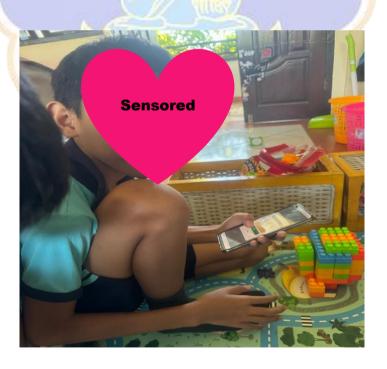


3rd Week





4th Week



5th Week



Appendix 14. Surat Ijin Mengambil Data



KEMENTERIAN PENDIDIKAN TINGGI, SAINS, DAN TEKNOLOGI UNIVERSITAS PENDIDIKAN GANESHA PROGRAM PASCASARJANA

Jalan Usbryama Norwer 11 Sengaraja, Bell 81116 Telepon (81999446464 Laman www.papea.un@lobs.ac.id

Singaraja, 3 Juni 2025

Nomor 2497/UN48.14 LPT.02.05/2025 Hal Mohon Ijin Pengambilan Data

Yth. Kepala Sekolah NBBS

di Tempat

Dengan hormat, dalam rangka pengumpulan data untuk Penelitian Disertasi mahasiswa. Program Pascasarjana. Universitas Pendidikan Ganesha, kami mohon kesedian Bapak/Ibu untuk dapat menerinta dan mengijinkan mahasiswa kami sebagai benkut:

Nama : Kadek Sintya Dewi

NIM : 223941005

Program Studi : Pendidikan Bahasa Inggris (83)

Judul Disertasi : Developing Digital Interactive Media to Teach Basic Literacy

and Communication in English as a Foreign Language to Young

Learners with Autism Spectrum Disorder (ASD).

untuk mendapatkan data/informasi yang dibutuhkan oleh mahasiswa dalam melakukan penelitian.

Atas perhatian, perkenaan dan kerja sama yang baik kami ucapkan terima kasih.

Menyetujui,

Promotor ,

Ni Nyoman Padmadewi NIP. 196202021988032001 Ke-Promotor I.

Luh Putu Artini NIP. 196407141988102001 Ko-Promotor II.

Ni Luh Putu Sri Adnyani NIP. 197803112003122001

Mengetahui, an Direktur,

Ida Bagas Putu Amyana NIP, 195812311986011005

Appendix 15. Students Progress Report in Baseline and Intervention Phase

(a) Indonesian Students 1 (Code + Initial: IS1CA)

• Name: CA

Age: 8 years oldGender: Male

• Academic Level: Academic 1

• Intermediate level (picture-words)

• Diagnoses: Autism, ADHD

• Characteristics: Lack of focus, over cheerful, reward addicted, playful, cheerful, disciplined and very active.

Favourite Activities: Drawing, Playing Games

First	t week interve	ntion prog	gre <mark>s</mark> s report (I	S1CA)			
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
	· ·	7		(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Body	My Body	Students are able to read the words and simple sentences in the quiz with audio assistance.	OIKSE	Y	√	
			Students are able to match the words and the correct picture without audio assistance.		+		

			Students are able to play and finish the quiz in the digital media		+	
2	Writing English Vocabulary about My Body	My Body	Students are able to do the digital exercise by tracing every word correctly.	ENDIDIA	ANG.	
3	Speaking English Vocabulary and simple expression of greeting and telling about body condition.	My Body	Students are able to respond or tell their body condition and give greeting to others.			

The table above shows how students (IS1CA) progress in learning basic English literacy and communication involving reading, writing, and speaking in intervention

phase. The different patterns show students changing conditions from only being able to

read but needs to be stimulated once by the teacher, to being able to do all of the instructions

himself in writing activity and went back again to the condition of needs to be stimulated several

times by the teacher in speaking activity.

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Hobby	My Hobby	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	INDIDIA SIKS F	+ CANKARA +		
2	Writing English Vocabulary about My Hobby	My Hobby	Students are able to do the digital exercise by tracing	++			

			every word correctly.			
3	Speaking English Vocabulary and simple expression of asking and telling about hobbies.	My hobby	Students are able to asking and telling their hobbies.		V	

The table above shows how students (IS1CA) progress in learning basic English literacy and communication involving reading, writing, and speaking in intervention phase. The different patterns show students changing conditions from only being able to read but needs to be stimulated once by the teacher, to being able to do all of the instructions himself in writing activity and went back again to the condition of needs to be stimulated several times by the teacher in speaking activity.

Thir	d week interv	e <mark>ntion pr</mark> a	gress report ((IS1CA)			
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Family	My Family	Students are able to read the words and simple sentences in the quiz		+		

			with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	ANDIDIA	+ TGAM	
3	Writing English Vocabulary about My Family Speaking English Vocabulary and simple expression of asking and telling about	My Family My Family	Students are able to do the digital exercise by tracing every word correctly. Students are able to asking and telling their Family Members.	DIKS A	+ #	
	Family Members.					

The table above shows how students (IS1CA) progress in learning basic English literacy and communication involving reading, writing, and speaking in intervention

phase. The different patterns show students changing conditions from only being able to read but needs to be stimulated once by the teacher, to being able to do all of the instructions himself in writing activity and went back to the condition of needs to be stimulated once by the teacher in speaking activity. Here, the improvement of speaking happened from the condition of needs to be stimulated several times by the teacher becoming only needs to be stimulated once by the teacher in speaking activity.

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
		15	- S	(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Daily Activities	My Daily Activities	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and	IKSB	+		

			quiz in the digital media		+	
2	Writing English Vocabulary about My Daily Activities	My Daily Activities	Students are able to do the digital exercise by tracing every word correctly.	NDİDIK Â	A GAMESHA	
3	Speaking English Vocabulary and simple expression of asking and telling about Daily Activities.	My Daily Activities	Students are able to asking and telling their Daily Activities.	IKSE	+	

The table above shows how students (IS1CA) progress in learning basic English literacy and communication involving reading, writing, and speaking in intervention phase. The different patterns show students changing conditions from only being able to read but needs to be stimulated once by the teacher, to being able to do all of the instructions himself in writing activity and went back to the condition of needs to be stimulated once by the teacher in speaking activity. Here, the improvement of speaking happened from the condition of

needs to be stimulated several times by the teacher becoming only needs to be stimulated once by the teacher in speaking activity.

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My House	My House	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	IKS P	TO CANADA +		

					+	
2	Writing English Vocabulary about My House	My House	Students are able to do the digital exercise by tracing every word correctly.	++		
3	Speaking English Vocabulary and simple expression of asking and telling about My House.	DIVINA	Students are able to asking and telling their house and its parts.	ENDIDIA P	A GARRANA	

The table above shows how students (IS1CA) progress in learning basic English literacy and communication involving reading, writing, and speaking in intervention phase. The different patterns show students changing conditions from only being able to read but needs to be stimulated once by the teacher, to being able to do all of the instructions himself in writing activity and went back to the condition of needs to be stimulated several times by the teacher in speaking activity. Here, the condition of IS1CA was not good. It could affect his focus and performance during speaking activity.

(b) Indonesian Students 2 (Code + Initial: IS2SN)

Name: SNAge: 10th

• Gender: Male

- **Academic Level**: 5th level of academic special Programme (Advance: Picture-Sentence)
- **Diagnosis**: Autism
- Characteristics: Lack of focus but getting better gradually, can read sentences, lack of social interaction

• Favourite Activities:

Drawing: Lift (at the moment so obsessed about lift)

Non-digital playing: Lego (making the shape of Lift)

Digital game playing: Roblox games (at home)

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
			100	(+ +)	(+)	(<mark>√</mark>)	(-)
and simp sentence	English Vocabulary and simple sentence about My	My Body	Students are able to read the words and simple sentences in the quiz with audio assistance.) IKSE			
			Students are able to match the words and the correct picture without audio assistance.	++			
			Students are able to				

			play and finish the quiz in the digital media		+	
2	Writing English Vocabulary about My Body	My Body	Students are able to do the digital exercise by tracing every word correctly.	ENDIDIA		
3	Speaking English Vocabulary and simple expression of greeting and telling about body condition.	My Body	Students are able to respond or tell their body condition and give greeting to others.		ATISAN	

DNDIKSHA

Seco	Second week intervention progress report (IS2SN).										
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable				
				(++)	(+)	(√)	(-)				

1	Reading English Vocabulary and simple sentence about My Hobby	My Hobby	Students are able to read the words and simple sentences in the quiz with audio assistance.	++		
			Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	TKS P	TOWNSHIP A	
2	Writing English Vocabulary about My Hobby	My Hobby	Students are able to do the digital exercise by tracing every word correctly.	++		
3	Speaking English Vocabulary and simple expression	My hobby	Students are able to asking and telling their hobbies.		+	

of asking and telling about hobbies.			

Thir	Third week intervention progress report (IS2SN).										
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable				
			- 0	(++)	(+)	(√)	(-)				
1	Reading English Vocabulary and simple sentence about My Family	My Family	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media		CANTESHIA STORY AND A						

					+	
2	Writing English Vocabulary about My Family	My Family	Students are able to do the digital exercise by tracing every word correctly.	++		
3	Speaking English Vocabulary and simple expression of asking and telling about Family Members.	My Family	Students are able to asking and telling their Family Members.	ENDIDIA P	+ CANKSHA	

Fourth week intervention progress report (IS2SN).								
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable	
				(++)	(+)	(√)	(-)	
1	Reading English Vocabulary and simple sentence about My Daily Activities	My Daily Activities	Students are able to read the words and simple sentences in the quiz with audio assistance.	++				

		1				
			Students are able to match the words and the correct picture without audio assistance.			
		TANKE	Students are able to play and finish the quiz in the digital media	NDIDIK	CANABAH +	
2	Writing English Vocabulary about My Daily Activities	My Daily Activities	Students are able to do the digital exercise by tracing every word correctly.	IKSE		
3	Speaking English Vocabulary and simple expression of asking and telling about Daily Activities.	My Daily Activities	Students are able to asking and telling their Daily Activities.		+	

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
				(++)	(+)	(√)	(-)
	Reading English Vocabulary and simple sentence about My House	My House	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	NDIDIA ***	CAMBIE		
2	Writing English Vocabulary	My House	Students are able to do the	++			

	about My House		digital exercise by tracing every word correctly.		
3	Speaking English Vocabulary and simple expression of asking and telling about My House.	My House	Students are able to asking and telling their house and its parts.	+	

(c) Indonesian Students 3 (Code + Initial: IS3DVN)

• Name: DVN

• Age: 10 years old

• Gender: Male

• Academic Level: 5th level of academic special Programme (Advance: Picture-Sentence)

• Diagnosis: Autism

• Characteristics: easily melting down, hearing sensitivity, lack of focus.

Can read sentences, can count, speaking English fluently.

• Favourite Activities: watching YouTube, and playing golf with non-digital toys.

First week intervention progress report (IS3DVN).										
No	Learning	Topics	Indicators	Willing to	Able to do	Able to do	Non-			
	Objectives			do the	the	the	observable			
				instruction	instruction	instruction				
				by himself	with one	but needs				
					stimulation	to be				
					by the	stimulated				
					teacher	several				
						times by				
						the teacher				

				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Body	My Body	Students are able to read the words and simple sentences in the quiz with audio assistance.	++			
			Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	EN DIDI	SAT CHARACTER		
			ON	DIKS	<u> </u>		
2	Writing English Vocabulary about My Body	My Body	Students are able to do the digital exercise by tracing every word correctly.	++			
3	Speaking English Vocabulary and simple expression of greeting and telling	My Body	Students are able to respond or tell their body condition and give		+		

about body condition.	greeting to others.		

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
1	Reading English Vocabulary and simple sentence about My Hobby	My Hobby	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	ÎKS P	THE CHARGE IN COLUMN TO THE CH		

					+		
2	Writing English Vocabulary about My Hobby	My Hobby	Students are able to do the digital exercise by tracing every word correctly.	++			
3	Speaking English Vocabulary and simple expression of asking and telling about hobbies.	My hobby	Students are able to asking and telling their hobbies.	ENDIDIA	+ Ar GAN		
	T	ŝ	· 🛦 [(87)7,	A E	77	

Thir	d week inte <mark>r</mark> ve	ention pro	gress report ((IS3DVN).			
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
1	Reading English Vocabulary and simple sentence about My Family	My Family	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to	++			

			match the words and the correct picture without audio assistance.	++		
			Students are able to play and finish the quiz in the digital media	ENDIDIA	T CHA	
2	Writing English Vocabulary about My Family	My Family	Students are able to do the digital exercise by tracing every word correctly.		KSILLA KSILLA	
3	Speaking English Vocabulary and simple expression of asking and telling about Family Members.	My Family	Students are able to asking and telling their Family Members.	OIKSE	+	

Four	Fourth week intervention progress report (IS3DVN).											
No	Learning Objectives	Topics	Indicators	Willing to do the	Able to do the instruction with one	Able to do the instruction but needs	Non- observable					

				instruction by himself	stimulation by the teacher	to be stimulated several times by the teacher	
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Daily Activities	My Daily Activities	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	IKS II	CANABIMA +		
2	Writing English Vocabulary about My Daily Activities	My Daily Activities	Students are able to do the digital exercise by tracing every word correctly.	++			

3	Speaking	My Daily	Students	+	
	English	Activities	are able to		
	Vocabulary		asking and		
	and simple		telling		
	expression		their Daily		
	of asking		Activities.		
	and telling				
	about Daily				
	Activities.				

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
1	Reading English Vocabulary and simple sentence about My House	My House	Students are able to read the words and simple sentences in the quiz with audio assistance.	(++)	(+)	(4)	(-)
			are able to match the words and the correct picture without audio assistance. Students are able to	++			

			play and finish the quiz in the digital media		+		
2	Writing English Vocabulary about My	My House	Students are able to do the digital	++			
	House		exercise by tracing				
			every word				
			correctly.				
3	Speaking	My	Students	RADIDAR	+		
	English Vocabulary	House	are able to asking and		Way		
	and simple		telling their	(A)	40		
	expression		house and			1	
	of asking	8	its parts.	P = / (6			
	and telling	5					
	about My House.			LA	A.		
	House.			THE STATE OF		11, 18	

(d) Malaysian Students 1 (Code + Initial: MS1JVT)

• Name: JVT

• Age: 8 years old

• Gender: Female (an orphan girl)

Academic Level: Academic 1 Beginner)

• Beginner level (pre K of reading, 1st grade

• **Diagnoses**: Intellectual Disability, Autism ADHD

• Characteristics: Lack of focus, sometimes has good focus, attention seeker.

• Favourite Activities: Willing to do any kind of activities

First	First week intervention progress report (MS1JVT).										
No	Learning Objectives	Topics	Indicators	Willing to do the	Able to do the	Able to do the	Non- observable				
	o ajecu, es			instruction	instruction	instruction	0.0001 (0.0010				
				by himself	with one	but needs					
					stimulation	to be					

					by the teacher	stimulated several times by the teacher	
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Body	My Body	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	IKSE OIL SE	CANARA +		
2	Writing English Vocabulary about My Body	My Body	Students are able to do the digital exercise by tracing every word correctly.	++			

3	Speaking	My	Students		$\sqrt{}$	
	English	Body	are able to			
	Vocabulary		respond or			
	and simple		tell their			
	expression		body			
	of greeting		condition			
	and telling		and give			
	about body		greeting to			
	condition.		others.			

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
	N.	3		(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Hobby	My Hobby	Students are able to read the words and simple sentences in the quiz with audio assistance.) IKS A		N	
			Students are able to match the words and the correct picture without audio assistance.		+		
			Students are able to				

2 Writing English Vocabulary about My Hobby Hobby 3 Speaking English Vocabulary and simple expression of asking and telling My Hobby Hobby Hobby Hobby Hobby Students are able to do the digital exercise by tracing every word correctly. Students are able to asking and telling Hobby And Students are able to asking and telling Hobby And Students are able to asking and telling hobbies.		+		play and finish the quiz in the digital media		
English Vocabulary and simple expression of asking			++	are able to do the digital exercise by tracing every word	English Vocabulary about My	2
about hobbies.		WORKSHI	ENDIDIA	are able to asking and telling their	English Vocabulary and simple expression of asking and telling about	3

Thir	Third week interve <mark>ntion progress report (MS1JVT).</mark>										
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable				
				(++)	(+)	(√)	(-)				
1	Reading English Vocabulary and simple sentence about My Family	My Family	Students are able to read the words and simple sentences in the quiz			V					

			with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	ENDIDIA	+ CAMESII		
2	Writing English Vocabulary about My Family	My Family	Students are able to do the digital exercise by tracing every word correctly.) IKS P	+		
3	Speaking English Vocabulary and simple expression of asking and telling about Family Members.	My Family	Students are able to asking and telling their Family Members.			√	

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Daily Activities	My Daily Activities	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	NDIDIR	CHANGE +		
2	Writing English Vocabulary about My	My Daily Activities	Students are able to do the digital exercise by tracing	++			

	Daily Activities		every word correctly.			
3	Speaking English Vocabulary and simple expression of asking and telling about Daily Activities.	My Daily Activities	Students are able to asking and telling their Daily Activities.		√ ·	

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable					
1	Reading English Vocabulary and simple sentence about My House	My House	Students are able to read the words and simple sentences in the quiz with audio assistance.	DIKST	+	V						
			Students are able to match the words and the correct picture without audio assistance.		+							

			Students are able to play and finish the quiz in the digital media				
2	Writing English	My House	Students are able to	++			
	Vocabulary	House	do the				
	about My		digital				
	House		exercise by				
	Tiouse		tracing	A			
			every word				
			correctly.		The same of the sa		
3	Speaking	My	Students	ENDID:		$\sqrt{}$	
	English	House	are able to	ST. DIL	4 8		
	Vocabulary		asking and	_	10		
	and simple		telling their	-AM			
	expression		house and			The state of the s	
	of asking	15	its parts.	10016	A C	18	
	and telling	15		- A-LS	3		
	about My	224					
	House.		W/ (
	20.1						

(e) Malaysian Students 2 (Code + Initial: MS2SML)

Name: SMLAge: 7 years old

• Gender: Male

• Academic Level: Early Transition Programme

• **Diagnoses**: Autism

• Characteristics: Lack of Focus, Learning/starting to talk.

• Favourite Activities: Take and drop, working on tablet activities, don't like worksheet.

First	First week intervention progress report (MS2SML).											
No	Learning Objectives	Topics	Indicators	Willing to do the	Able to do	Able to do the	Non- observable					
	o bjecu ves				instruction	instruction	obser vasie					

				instruction by himself	with one stimulation by the teacher	but needs to be stimulated several times by the teacher	
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Body	My Body	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	NDIDIA OLIKSE	THE CHARLES HAVE A A A A A A A A A A A A A A A A A A		
2	Writing English Vocabulary about My Body	My Body	Students are able to do the digital exercise by tracing		+		

			every word correctly.		
3	Speaking English Vocabulary and simple expression of greeting and telling about body condition.	My Body	Students are able to respond or tell their body condition and give greeting to others.		

	nd week inter						
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
		Ų.	e	(+ +)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Hobby	My Hobby	Students are able to read the words and simple sentences in the quiz with audio assistance.	DIKSE		V	
			Students are able to match the words and the correct picture without audio assistance.		+		

			Students are able to play and finish the quiz in the digital media		+	
2	Writing English Vocabulary about My Hobby	My Hobby	Students are able to do the digital exercise by tracing every word correctly.	ENDIDIA	+ ANG	
3	Speaking English Vocabulary and simple expression of asking and telling about hobbies.	My hobby	Students are able to ask and tell their hobbies.			

Thir	d week interv	ention pro	ogress renort (MS2SML).			
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple	My Family	Students are able to read the words and			V	

				T			
	sentence		simple				
	about My		sentences				
	Family		in the quiz				
			with audio				
			assistance.				
			G. 1				
			Students				
			are able to				
			match the				
			words and				
			the correct				
			picture without				
			audio				
			assistance.		+		
			assistance.				
			100				
			Students	NITTO			
			are able to	STUDIES OF	ANG		
		1/4	play and		10		
	4		finish the	MAN	-		
	Value of the last		quiz in the			The same of the sa	
			digital			7.8	
	¥.		media			- 1	
		100	media				
			7.1		1		
	1		F	William I)	7/ /	
	1	1			S (4)		
		7/	CANA.	VVVVV		1	
		10.	1011		+	1	
2	Writing	Mr	Studente				
2	English	My Family	Students are able to		+	Sept 1	
	Vocabulary	Taimiy	do the				
	about My		digital	DIKST			
	Family	1	exercise by				
	1 dillily	300	tracing	10 m			
			every word				
			correctly.				
3	Speaking	My	Students			\checkmark	
	English	Family	are able to				
	Vocabulary		asking and				
	and simple		telling their				
	expression		Family				
	of asking		Members.				
	and telling						
	about						
	Family						
	Members.						
		<u> </u>		l			

No	rth week inter Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Daily Activities	My Daily Activities	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	NDIDIR	+ +		

2	Writing	My Daily	Students		+		
	English	Activities	are able to				
	Vocabulary		do the				
	about My		digital				
	Daily		exercise by				
	Activities		tracing				
			every word				
			correctly.				
3	Speaking	My Daily	Students			√	
	English	Activities	are able to				
	Vocabulary		ask and				
	and simple		telling				
	expression		their Daily				
	of asking		Activities.	A.			
	and telling						
	about Daily		AND DESCRIPTION OF THE PARTY OF		Mary Control		
	Activities.		16				
			190	NDIDIA			
			TANO.		W		
		1/15	9	A CONTRACTOR OF THE PARTY OF TH	6		
					0		

			I Promise				
Fifth	n week interve	ntion prog	ress report (1	MS2SML).	WOLLE		
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
		1		(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My House	My House	Students are able to read the words and simple sentences in the quiz with audio assistance.			V	
			Students are able to match the				

			words and the correct picture without audio assistance.		+		
			Students are able to play and finish the quiz in the digital media				
			RAITASP	endid _{ia}	1 CH		
2	Writing English Vocabulary about My House	My House	Students are able to do the digital exercise by tracing every word correctly.		THIS!		
3	Speaking English Vocabulary and simple expression of asking and telling about My House.	My House	Students are able to asking and telling their house and its parts.	OIK S.E	A A	V	

(f) Malaysian Students 3 (Code + Initial: MS3LKM)

• Name: LKM

• **Age**: 15 years old

• Gender: Male

• Academic Level: Prevocational

• **Diagnose**: Autism

• Characteristics: Focus problem, Sensory tactile, articulation problem.

He is taking vocational program but cannot read yet

• Favourite Activities: Willing to do any kind of activities

Firs	t week interve	ntion prog	gress report (N	MS3LKM).			
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
	700		3	(+ +)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Body	My Body	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the) IKS E	+		

			digital media		+		
2	Writing English Vocabulary about My Body	My Body	Students are able to do the digital exercise by tracing every word correctly.		+		
3	Speaking English Vocabulary and simple expressions of greeting and telling about body condition.	My Body	Students are able to respond or tell their body condition and give greetings to others.	ENDIDIA Â	SCHARSHA SHA	1	

Seco	Second week intervention progress report (MS3LKM).										
No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable				
				(++)	(+)	(√)	(-)				
1	Reading English Vocabulary and simple sentence about My Hobby	My Hobby	Students are able to read the words and simple sentences in the quiz with audio assistance.			√					

			Students are able to match the words and the correct picture without audio assistance.		+		
			Students are able to play and finish the quiz in the digital media	ENDIDIA	TOWNSH OF		
2	Writing English Vocabulary about My Hobby	My Hobby	Students are able to do the digital exercise by tracing every word correctly.		+		
3	Speaking English Vocabulary and simple expression of asking and telling about hobbies.	My hobby	Students are able to asking and telling their hobbies.) I K S I		√	

Thir	Third week intervention progress report (MS3LKM).									
No		Topics	Indicators	Willing to	Able to do	Able to do	Non-			
				do the	the	the	observable			

	Learning Objectives			instruction by himself	instruction with one stimulation by the teacher	instruction but needs to be stimulated several times by the teacher	
				(+ +)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Family	My Family	Students are able to read the words and simple sentences in the quiz with audio assistance. Students are able to match the words and the correct picture without audio assistance. Students are able to play and finish the quiz in the digital media	IK S F	CANABIMA +		
2	Writing English Vocabulary about My Family	My Family	Students are able to do the digital exercise by tracing		+		

			every word correctly.			
3	Speaking English Vocabulary and simple expression of asking and telling about Family Members.	My Family	Students are able to asking and telling their Family Members.		√	

No	Learning Objectives	Topics	Indicators	Willing to do the instruction by himself	Able to do the instruction with one stimulation by the teacher	Able to do the instruction but needs to be stimulated several times by the teacher	Non- observable
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My Daily Activities	My Daily Activities	Students are able to read the words and simple sentences in the quiz with audio assistance.	IKSH		√	
			Students are able to match the words and the correct picture without audio assistance.				

			Students are able to play and finish the quiz in the digital media		+		
			SITAS PE	NDIDIK	LY CAL		
2	Writing English Vocabulary about My Daily Activities	My Daily Activities	Students are able to do the digital exercise by tracing every word correctly.				
3	Speaking English Vocabulary and simple expression of asking and telling about Daily Activities.	My Daily Activities	Students are able to asking and telling their Daily Activities.	IKSH		V	

Fifth	Fifth week intervention progress report (MS3LKM).									
No	Learning	Topics	Indicators	Willing to	Able to do	Able to do	Non-			
	Objectives			do the	the	the	observable			
				instruction	instruction	instruction				
				by himself	with one	but needs				
					stimulation	to be				

					by the teacher	stimulated several times by the teacher	
				(++)	(+)	(√)	(-)
1	Reading English Vocabulary and simple sentence about My House	My House	Students are able to read the words and simple sentences in the quiz with audio assistance.			√	
		A A A A A A A A A A A A A A A A A A A	Students are able to match the words and the correct picture without audio assistance. Students are able to play and	endidia Â	CHARSHA +		
			finish the quiz in the digital media	DIKSE	+		
2	Writing English Vocabulary about My House	My House	Students are able to do the digital exercise by tracing every word correctly.		+		

3	Speaking	My	Students		$\sqrt{}$	
	English	House	are able to			
	Vocabulary		asking and			
	and simple		telling their			
	expression		house and			
	of asking		its parts.			
	and telling					
	about My					
	House.					

