# Instrument to Assess the Perception of Sound and Rhythm for Children with Hearing Impairment

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Abstract: Children with hearing impairments experience hearing loss from mild to profound, which is grouped into hard of hearing and deafness. The direct impact of hearing loss is the inability/difficulty to catch various sounds, including the sound of the language. Those with hearing impairments must be made aware of sound, especially children classified as hard of hearing, whose remaining hearing must be stimulated to train their sensitivity so that their hearing function can be optimized. Therefore, they are given special services in the form Development of Communication, Perception of Sound and Rhythm. The program provided must be under their learning conditions and needs; therefore, an assessment is needed. This study aimed to formulate an assessment instrument for sound and rhythm perception for children with hearing impairments at Special Education Elementary School. This study used a qualitative approach with a descriptive method. This study was designed in three stages: (1) preliminary stage with literature study and documentation study on the curriculum for developing sound and rhythm perception communication, f (2) drafting stage of the assessment instrument for Sound and Rhythm Perception, and (3) validation stage of assessment instrument by measurement & education experts for children with hearing impairment and practitioners (teachers at Special Education School). The result was a hypothetical sound and rhythm perception assessment instrument that needed to be implemented at the next research stage. This instrument for assessing the perception of sound and rhythm covered the aspects of sound detection, sound discrimination, and sound comprehension. This study result can be used as a reference for teachers in carrying out a sound perception assessment before conducting a special program for Developing Communication for the Perception of Sound and Rhythm.

**Keywords**: assessment instrument; perception of sound and rhythm; children with hearing impairments

## **INTRODUCTION**

Hearing impairment children experience a loss of hearing acuity, so they are unable / difficult to catch and perceive sounds, which in turn can hinder the process of mastering language. The degree of hearing loss can occur in the range of mild to profound, which is broadly grouped into hard of hearing and deaf. This is in accordance with the opinion of Hallahan, Kauffman &Pullen (2014,p. 347-348) that "Hearing impairment is a broad term that covers individuals with impairments ranging from mild to profound; it includes those who are deaf or hard of hearing receive special education and related services under the federal disability category of hearing impairments". Hard of hearing includes hearing loss in the mild to moderately severe range, while the deaf group is usually in the severe and profound range. In children who are deaf, the residual hearing can vary, and it is important to be stimulated with various sounds to train the sensitivity of the residual hearing. Likewise, children with hearing impairments who are classified as deaf, even though their hearing is difficult to pick up on sound, but their sense of vibration or appreciation of sound vibrations need to be stimulated to train their sensitivity. These efforts are steps to optimize the function of the remaining hearing and the feeling of

vibration. In order for the training provided to run effectively and efficiently, the training program must be in accordance with the abilities and needs of students obtained through assessment activities.

Assessment is a systematic process of collecting information data about a child that serves to see the abilities and difficulties he is currently facing, as material to determine what is really needed (McLoughlin & Lewis, 1986). The information as a result of the assessment can be used as a basis in the preparation of learning programs for these children. Thus, based on this information, teachers can arrange learning or training programs according to the abilities and needs of students. For children with special needs, especially children with hearing impairment, the potential and abilities are very diverse, so this assessment is very important so that the learning provided is in accordance with their learning needs, including the development of sound and rhythm perception.

Perception of sound and rhythm is an integral part of a special program for children with hearing impairments, namely Development of Sound and Rhythm Perception Communication. This program is very important given to children with hearing impairments to stimulate the sensitivity of the remaining hearing they still have. Besides that, there are many benefits by developing this ability, such as the results of research by Susilowati, E., Fanani, M., & Herawati, E. (2013) showing that the learning of Sound and Rhythm Perception Development has an effect on the development of communication independence of hearing impairment children. The results of other research conducted by Alhumaira, T.N.(2018) show that the Development of Sound and Rhythm Perception Communications can be implemented in learning to dance using music. In addition, other research results show that the rhythmic movement of deaf students increases through the Development of Sound and Rhythm Perception Communication. (Maulana, M.J., Suntoda, A. & Slamet, S. 2019). The results of the research that have been carried out are more directed to the benefits of developing sound and rhythm perception and have not found anything that leads to an assessment instrument.

It is important to carry out assessment activities in order to adapt the learning program to their conditions and abilities. Ideally, in carrying out the assessment using standardized instruments, but standard instruments, especially for assessing the ability to perceive sound and rhythm, are still difficult to find. Conditions in the field, the teacher has difficulty in revealing a real picture of the communication skills of sound and rhythm perception. Teachers tend to assess children's abilities based on the results of initial observations or data that are not stable (valid) or do not carry out an assessment before learning/training Development of sound and rhythm perception communication. Therefore, in order to help teachers reveal the real conditions of deaf children in communication skills of sound and rhythm perception, and to encourage teachers to carry out informal assessments, it is necessary to develop appropriate assessment instruments. This research is a new thing, because in previous studies it was more directed to the benefits of developing sound and rhythm perception itself, while those who conducted research on the assessment instrument had not been found. Therefore this research focused on the preparation of assessment instruments for the Development of Sound and Rhythm Perception, which consists of sound detection, sound discrimination, sound identification and sound comprehension. This assessment of sound and rhythm perception is an integral part of the Special Program for the Development of Sound and Rhythm Perception Communication. Based on these focuse the purpose of this research is to formulate a hypothetical assessment instrument for the development of sound and rhythm perception for children with hearing impairment based on curriculum studies and literature analysis

### **METHOD**

In line with the purpose of this research, namely to formulate an assessment instrument for sound and rhythm perception, the research approach used was a qualitative approach with a descriptive method. The data collection technique was carried out through literature studies and documentation studies on the curriculum for developing sound and rhythm perception communication. This research was conducted at the State Special School Cicendo, Bandung.

This article is the result of the first of two research designs: the first design, the formulation of the assessment instrument, and the second design for its implementation. The first research design includes: (1) the preliminary stage by conducting curriculum analysis and literature study; (2) The stage of drafting the assessment instrument for Sound and Rhythm Perception; and (3) the validation stage of the assessment instrument by experts and practitioners.

At the stage of curriculum analysis and literature study, the researcher examines the relevant theories and the program curriculum, especially the Development of Communication, Perception of Sound and Rhythm, and determines the aspects to be assessed. At the design stage of the assessment instrument, the researcher compiled an assessment instrument grid consisting of: Aspects, sub-aspects, indicators, and number of questions. Furthermore, based on the grid, the instrument items for the assessment of sound and rhythm perception (consisting of component- sub component - indicators) are arranged, then develop questions based on the grid that has been made. The instrument validation stage is carried out through expert validation (experts in assessment and Education of Children with Hearing impairment) as well as practitioner validation (teachers who teach children with hearing impairments).

### **RESULT AND DISCUSSION**

### **Result(S)**

The result of this research is a hypothetical assessment instrument for the development of sound and rhythm perception for children with hearing impairment. The instrument has been validated by measurement and education experts for children with hearing impairments and education practitioners The assessment instrument consists of a grid and the details of the instrument, which can be seen in the Table 1 and Table 2.

Aspect	Sub Aspect	Indicator	Expected Response	Question Font
Aspect	Sub Aspect	mulcator	Expected Response	Number
Sound	Object Sound	Detect the sound of a	Raising the thumb of the right hand	1,3,
Detection	Detection	musical instrument	up while saying "there is a sound"	
		Detect no object sound	Raise your right hand with open	2,5
			fingers and shake it left-to-right	
			while saying "no sound"	
		Detect the sound of the	Raising the thumb of the right hand	4
		blower	up while saying "there is a sound"	
	Detection of	Detect animal sounds	Raising the thumb of the right hand	6,7
	animal sounds		up while saying "there is a sound".	
	through	Detect no animal	Raise your right hand with open	8
	recording	sounds.	fingers and shake it left-to-right	
			while saying "no sound"	
	Sounds of	Detects sounds of	Raising the thumb of the right hand	9
	nature through	nature /lightning	up while saying "there is a sound".	
	recording	Detects no sounds of	Raise your right hand with open	10
		nature.	fingers and shake it left-to-right	
			while saying "no sound"	
Sound	Discrimination	Discriminates long	Stretch your arms when you hear a	11, 12
Discriminati	ion of long-short	and short sounds	long sound and put your hands on	

Table 1. Assessment Instruments Grid of Sound and Rhythm Perception for Children
with Hearing Impairment at Elementary School Level
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	sound	through the whistle	your waist when you hear a short	
		Discriminates long	sound.	13.14
		and short sounds		
		through the piano.		
	Discrimination	Discriminates high	Lift the ball above your head when	15.16
	of high - low	and low	you hear a high sound, and hold the	15,10
	sound	sounds/tones	ball when you hear a low sound	
	sound	through the piano	ball when you hear a low sound.	
		Discriminatos high		17 18
		and low		17,10
		and low		
		sounds/tones		
		through		
		tambourines, bells		
	<u> </u>	and planos.	*** ** * * * * * * *	10.00.01.00
	Discrimination	Discriminates fast	Walk in place quickly when you	19,20, 21,22
	of Quick-	and slow sounds	hear a fast sound and walk in place	
	Slow Sound	through drums.	slowly	
	Disorimiration	Disoriminator 1J	The shild hits the down hand an	22.24
	Discrimination	Discriminates loud	The child hits the drum hard or	23,24
	of Loud -	and weak sounds	weakiy/slowly.	
	weak sound	through drums		
	Discrimination	Discriminates drum	Children clap their hands according	25, 26, 27,
	of 2/4 and 4/4	sounds with 2/4 and	to the time bar that is heard	28,29.
	Time Bar	4/4 time bar.		- 7
	Discrimination	Discriminates the	The child shakes his body to the	30
	of Pop (slow)	pop (slow) and	rhythm of the music	
	– dangdut	dangdut music	-	
	music	-		
Sound	Sound	Identify the sound	The child points to the source of the	31,32
Identification	Direction	direction.	sound.	
	Sound Source	Identify the source	The child shows a picture card of the	33,34,35
		of the sound.	sound-producing device that is	
			heard.	
	Sound names	Identify animal	The child demonstrates movement	
		sounds.	and/or imitates the sound of an	36.37.38
			animal whose voice is heard.	
	Counting	Identify countable	The child moves the straw on the	
	sounds	sounds.	student's left to the student's right, a	39.40
			number of sounds count.	
Sound	Background	Understanding	The child demonstrates / says	
comprehension	Sound	background sounds	according to the meaning of the	41,42,43
with/without		-	sound.	
the use of	Language	Imitating the	Imitating the assessor	44,45,46
hearing aids is	Sound	assessor	-	
limited to the		Answering	Answering questions asked by	47,48,49
child's residual		questions asked by	assessors verbally.	
hearing		assessors verbally.	,	
0		Doing what the	Doing what the assessor assigned	50
		assessor assigned	2	-

No	Stores	Test Instrument	Instruction	Score		e	- Evolution
140	Stages	i est misti ument	Instruction	0	1	2	Explanation
А	Sounds Detec	tion					
1 2 3	Sounds of Things	There is a drum sound around No Sound There is a piano sound	The position of the child is standing with his back to the sound source at a distance of two m. The child is told that "the test is				The sound that is heard for about five seconds
4	Sounds of Things	There is a whistle sound	about to start so that the child concentrates. The assessor plays the sound of objects/records of animal				The sound that is heard
6	Animal Sound	Detects the sound of a dog barking.	The child is asked to raise the thumb of his right hand up while				five seconds
7 8	Recording	Detects the sound of a cat meowing. No Sound	saying "there is a sound" if he can detect/live the sound. After the assessor informed that				
9 10	Nature Sound Recording	Sound of heavy rain. No Sound	the next test was about to start, the assessor returned to the position when sounding objects or playing recorded animal sounds/nature sounds, but did not make any sound. The child is asked to raise his right hand with an open finger and shake it left and right, if he does not hear/live the sound.				
В	Sound Discrir	nination					
11	Long Sound $(\pm \text{ three }$ seconds)- short sound $(\pm \text{ one }$	Discrimination of long – short sound through the whistle	The position of the child is standing with his back to the assessor who makes the sound. The child is told that "the test is about to start" so that the child				
12	second)	Discrimination of short - long sound	The assessor makes a sound Children are asked to:				
13		through the whistle Discrimination of long – short – long	<ul> <li>Spreading his arms when he heard a long sound</li> <li>Puts both hands on the waist</li> </ul>				
14		biscrimination of biscrimination of short – long – short	when he hears a short sound.				
15	High – low sound	Discrimination of high-low piano sound	The position of the child sitting cross-legged with his back to the				The sound is heard for
16		Discrimination of	source of the sound, and in front				about five
17		low-high piano sound Discrimination of tambourine sound (low sound) and bell sound (high sound)	The assessor plays the sound according to the instrument. The child is asked to lift the ball above his head when he hears a				seconds
18		Discrimination of Bell (high sound) and low sound of piano	high-pitched sound The child is asked to place the ball on his lap, if he hears a low pitched sound. The child is asked to put the ball on the floor when there is no				

# Table 2. Assessment Instruments Points of Rhythm and Sound Perception for Children with Hearing Impairment at Elementary School Levels

19	Fast – Slow Sound	Discrimination of fast – slow sound of drums	sound. The position of the child is standing with his back to the sound source. The assessor plays	The drum sound that is heard on
20		Discrimination of slow – fast sound of drums	the sound according to the instrument. Children are asked to walk in place quickly if they hear a fast sound	each item is about six seconds
21		Discrimination of fast – slow - fast sound of	Children are asked to walk in place slowly if they hear a slow	
22		drums Discrimination of slow – fast - slow sound of drums	sound.	
23	Loud – weak sound	Discrimination of loud - weak music sound	The assessor played the recorded music loudly and weakly alternately according to the test	The music playing on each item is
24		Discrimination of weak - loud music sound	instrument. Children are asked to hit the drum loudly if they hear music loudly. Children are asked to hit the drum weakly if they hear music weakly.	about six seconds.
25	2/4 –3/4- 4/4 Time Bar	Discriminates drum sound with a 2/4 - 4/4 time bar	The assessor plays the sound of a drum with a 2/4 time bar and the child is asked to clap according to a 2/4 time bar. Next, the assessor plays the sound of the drum in 4/4 time bar and the child is asked to clap according to the 4/4 time bar.	
26		Discriminates drum sound with a time bar of 4/4 -2/4.	The assessor plays the sound of a drum with a time bar of 4/4 and the child is asked to clap according to the time bar of 4/4. Next, the assessor plays the sound of the drum in the 2/4 time bar and the child is asked to clap according to the 2/4 time bar.	
27		Discriminates the sound of drums with a $2/4 - 3/4$ time bar.	The assessor plays the sound of the drum with the 2/4 time bar and the child is asked to clap according to the 2/4 time bar. Next, the assessor plays the sound of the drum with the 3/4 time bar and the child is asked to clap according to the 3/4 time bar.	
28	2/4 –3/4- 4/4 Time Bar	Clap your hands according to the 2/4 time bar.	The assessor assigns the child to make a sound through clapping according to the $2/4$ or $4/4$ time	The music playing on each item is
29		Clap your hands according to the 4/4 time har	bar (according to the instrument).	about six seconds.
30	Pop (slow) – dangdut music	Distinguish between pop and dangdut music that is played for one minute each.	The assessor played pop music for one minute, the child was asked to shake his body according to the rhythm of the	

			music. Next, the assessor plays	
			dangdut music for one minute,	
			the child is asked to shake his	
			body to the rhythm of the music.	
С	Sound Identif	fication		
31	Sound	Identify the direction	The assessor assigned three	
	Direction	of the sound to the	children to sit in a row on the	
		right	floor with a distance of about 1	
32		Identify the direction	meter. The child being tested	
		of the sound to the	(testee) sits in the middle wearing	
		left	a blindfold. The child sitting on	
			the left and right of the testee	
			holds the gong. After the assessor	
			signaled that the test was about to	
			start, the child on the right side of	
			the testee was asked to hit the	
			gong for about 5 seconds and the	
			testee was asked to point to the	
			direction of the sound source.	
			Next, the child on the testee's	
			left, hits the gong for about 5	
			seconds and the testee is asked to	
			point to the direction of the sound	
			source.	
33	Sound	Identify the source of	The assessor makes the sound by	The sound
	Source	the drum sound.	hitting the drum at medium speed	that is
			for about six seconds.	played on
			Children are asked to choose one	each item is
			picture according to the sound of	about six
			the instrument that is heard by the	seconds.
			assessor, from three sound source	
			picture cards (whistle, drum, and	
			organ).	
34		Identifying the source	The instructions are the same as	
		of the whistle	in point 33, but with a choice of	
			pictures: drums, trumpets and	
			whistles.	
35		Identify the source of	The instructions are the same as	
		organ sound	in point 33, but with a choice of	
		C	pictures: drums, organ and	
			whistle.	
36	Sound	Identify the recorded	The assessor plays a recording of	
	Name	sound of a tiger	the sound of a tiger roaring/dog	
		roaring.	barking/rooster crowing, and the	
37		Identify recorded	child is asked to demonstrate	
		sounds of dogs	movements and/or imitate animal	
		barking.	sounds when the sound is heard.	
38		Identifying the sound		
		of a rooster crowing		
39	Counting	Whistle twice.	The child sits cross-legged with	
40	Sounds	Whistle four times.	his back to the assessor, and in	
			front of the child's left there are 6	
			straws.	
			The assessor plays a whistle	
			according to the instrument.	
			The child is asked to move the	
			straw from the child's left to the	
			child's right as many sounds are	
			heard.	

### D Sound Understanding

41	Background	Lightning sound.	The position of the child facing
	Sound		the sound system. The assessor
			plays a recording of the sound of
			lightning. Children are asked to
			demonstrate the movement of
			rain falling while saying rain
42		The sound of the bell	The child's position is the same
			as point 41, and the child
			demonstrates and/or says
			"enter/rest/go home" (according
			to the situation/through role-
			playing) when hearing the sound
			of the bell.
43		Assessors play a	Children are asked to
		recorded car horn	demonstrate "step aside" to the
		sound through a	side of the road, when they hear
		simulation of walking	the sound of a car horn, through
		on the highway.	simulation activities.
44	Language	Saying "mother"	The child stands/sits in front of
	Sound		the assessor and is asked to
45		Saying "hat"	imitate/signify the assessor's
			speech.
46		Saying "ball"	When speaking, the assessor
			covered his mouth with his five
			fingers or paper in a straight (not
			curved) position. Likewise for the
			next point.
47		Saying "what is your	The child stands / sits in front of
		name?"	the assessor and is asked to
48		Saying "What grade	answer the assessor's questions,
		are you in?"	orally and / with gestures, or in
49		Saying "What day is today?"	writing.
50		Saving "Open the	The child stands / sits in front of
50		door!"	the assessor and is asked to do the
			assessor's orders
			Total score

### TEST RESULT ANALYSIS

- The calculation formula for the percentage of assessment: Acquisition score/Maximum score x 100%
- Assessment criteria:

Very Good : 9	0% - 100%
Good	: 70 % - 89%
Good Enough	: 55 % - 69 %
Not good $\therefore \leq$	54%

#### **Assessment Description:**

Very Good : Children are able to perceive sound very well. Good : Children are able to perceive sound well

Not good : Children are less able to perceive sound

Not good : The child has not been able to perceive sound

### **Discussion**(s)

Development of Sound and Rhythm Perception is part of the Sound and Rhythm Perception Communication Development service, which is a special program in educational services for children with hearing impairment. Sound and rhythm perception development service is a service to train the sensitivity/appreciation of children with hearing impairment to sound and rhythm. These services must be in accordance with the needs of children with hearing impairments identified through assessment. Therefore assessment activities are a must for teachers to carry out. This is in accordance with the opinion of Soendari, Abdurahman, & Mahmud (2008, p.1) that The assessment data can be used as material in the preparation of individual learning programs. In this regard, assessment becomes a competency for all teachers, especially in dealing with children with special needs. Based on the results of the assessment, the teacher can arrange a program according to the conditions and learning needs, so that learning is expected to run effectively and efficiently. Thus, the child can optimize the function of the remaining hearing he still has. This is in accordance with the results of the research that "Effective Sound and Rhythm Perception Communication Development Materials really help deaf children in optimizing their remaining hearing (Khalilurrahman and M. Afdhal, 2011).

The assessment instrument for sound and rhythm perception consists of aspects of sound detection, sound discrimination, sound identification, and sound comprehension. This is in accordance with the curriculum of special programs for children with hearing impairments as well as with various literatures, as stated by Sadjaah & Sukardja (1996); Hernawati & Supriatna (2018) that the development program for sound and rhythm perception includes sound detection, sound discrimination, sound identification, and sound comprehension.

The assessment instrument produced through this research has only reached the stage of conceptual validation or content validation by experts who are competent in the field of measurement and children with hearing impairments as well as practitioners/teachers of Extraordinary Schools/ State Special Schools Cicendo, Bandung.

### CONCLUSSION

The preparation of the instrument was carried out based on curriculum analysis and literature analysis. The preparation is carried out through three stages, namely the first stage, conducting curriculum analysis and literature study; the second stage, the design of the assessment instrument; the third stage, validation of the assessment instrument by experts and practitioners. The design of the assessment instrument was validated by measurement and education experts for children with hearing impairments as well as by teachers at the Special School/State Special School of Cicendo Bandung, which is a special school for children with hearing impairments. The scope of assessment instrument of sound and rhythm perception includes aspects of sound detection, sound discrimination (with sub-aspects of long-short sound; high-low sound; fast-slow sound; loud - weak sound; music time bar 2/4, 3/4 and 4/4; pop and dangdut music); Sound identification (with sub-aspects of sound direction, sound source, sound names, and counting sounds); and sound comprehension with/without using hearing aids to the extent of residual hearing (with sub-aspects of background sounds and language sounds).

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