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1 Development of Modification of Big Ball Game with Play Approach in Order to Develop Basic Movement Skills in Elementary School Students

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1 Abstract

This study aims to modify the basic motion-based big ball game with a play approach in order to develop basic movement skills and be developed as a guide for sports teachers and learning with game concepts. The resulting product is a CD and a good ball game manual with a playing approach. The research was developed by adapting the Gall, Gall, & Borg educational research and development model. The development procedure used includes several stages: 1) analyzing the content of the developed product, 2) developing the initial game product, 3) expert validation, 4) field testing, 5) product revision of the data analysis techniques used in this study in two ways, namely quantitative and qualitative.

Keywords

modifications; great ball play; basic movement skills



I. Introduction

Sport is something that is needed by the body. In addition to being healthy for the body, sports can also train togetherness, make individuals happier or happier and able to foster cohesiveness in a team. Sports in the form of games such as volleyball, cricket, hockey and soccer are good ways to maintain one's physical fitness and mental health. Many parents, teachers, schools encourage children to engage in some kind of Sports.

Physical Education Sport and health is a subject given at a particular school level which is one part of overall education that prioritizes physical activity and fostering a life healthy for growth and development of physically, mentally, socially and emotionally that is harmonious, harmonious and balanced (Depdiknas, 2006: 131). In general secondary education units that serve students with special needs, of course, require special handling in providing the learning process (Mughtar, 2020).

Especially for elementary school children need a high creative power in order to be able to create a fun game. Children generally like games that are not heavy but can train their cohesiveness, agility and creativity as well as improve their basic movement skills. The basic movements of walking, running and jumping are basic locomotor movements that need to be developed in elementary school (SD) in addition to other basic movements. Basic locomotor movements are one of the domains of fundamental basic movements, in addition to non-locomotor basic movements and manipulative basic movements, locomotor basic movements which are the subject taught in elementary schools (SD).

Children must be taught how to do good and correct movements, if children are able to do the right movement activities and are carried out continuously, the child will have a strong and healthy body and better movement. Furthermore, Kadek et al (2015: 195) said that children need to be equipped with various basic movement skills that are good according to their abilities and age, this has a positive impact on their physical and psychological growth and development. Another opinion is expressed by Ria (2013: 7)

with a variety of motion experiences in children, they will have good movement patterns and awareness, so they are able to perform efficient movements in a variety of varied situations.

Based on the expert opinion above, it can be concluded that physical activities carried out in childhood are very important given to improve basic movement abilities. This has a positive impact on children's growth and development in line with the development of other abilities. The 2013 SD/MI curriculum is designed to provide opportunities for students to learn based on their interests. The curriculum structure allows students to make choices in the form of specialization groups, cross-interest options, and/or deepening interest options. One of the Physical Education Materials for the 2013 curriculum for elementary school which contains material for big ball games. The learning material for the big ball game covers various sports, namely football, volleyball, and basketball.

In learning physical education, games in the curriculum structure must be implemented according to the needs of students in elementary schools. Because students can learn through play with joy and channel the desire to move. This is even better if it is equipped with adequate facilities and infrastructure. The more the need for movement is met during its growth period, the greater the impact on the quality of growth itself.

Improving the quality of movement in children should receive attention by teachers of Physical Education, Sports and Recreation (PJOK). It's just that in the implementation of learning big ball games in elementary schools in general, there are problems. This is based on the results of the questionnaire instrument given to physical education teachers in the city of Medan. The findings are 1). The lack of field infrastructure is an obstacle to the implementation of big ball learning. 2). In general, physical education learning in elementary schools, teachers teach children with actual skills by using actual equipment. So that students find it difficult to master the big ball game in the learning process, 3) not all schools have adequate facilities and infrastructure. 4). With limited facilities and infrastructure, Schools require teachers to be able to improve students' skills in every Physical Education learning material. 5) the basic movement learning carried out by the teacher is still seen as limited to the material by explaining it at the beginning of learning using the command method so that students follow more orders / cues from the teacher. 6) The lack of student motivation in participating in learning the big ball game because of the limitations of the ball used. 7). Lack of student movement activity because movement activities are not optimal in developing the cognitive, affective and psychomotor domains. 5) the basic movement learning carried out by the teacher is still seen as limited to the material by explaining it at the beginning of learning using the command method so that students follow more orders / cues from the teacher. 6) The lack of student motivation in participating in learning the big ball game due to the limitations of the ball used. 7). Lack of student movement activity because movement activities are not optimal in developing the cognitive, affective and psychomotor domains. 5) the basic movement learning carried out by the teacher is still seen as limited to the material by explaining it at the beginning of learning using the command method so that students follow more orders / cues from the teacher. 6) The lack of student motivation in participating in learning the big ball game because of the limitations of the ball used. 7). Lack of student movement activity because movement activities are not optimal in developing the cognitive, affective and psychomotor domains.

Based on the background stated above, it is necessary to solve the problem by modifying the basic motion-based big ball game with a playing approach in order to develop basic movement skills.

II. Research Methods

The research subjects in this study were elementary school students. For small group trials consisting of 20 elementary school students. The large group trial consisted of 40 elementary school students. The development method used in this research is the Borg and Gall development model with 7 steps. This was done due to time and cost constraints and this is supported by Sukmadinata (2015) who stated that development research can be stopped until a final draft is produced, without testing the results. The results or impacts of the implementation of the development of movement activities already exist in small group trials and large group trials. The 7 steps are explained as follows: 1) Conducting preliminary research (pre-survey), 2) planning, 3) product drafting, 4) initial testing, 5) revising the product, 6) Conducting field trials, 7) Conducting product revision.

III. Results and Discussion

The results of this development research is a modification of the big ball game with a basic motion-based playing approach with a playing approach in order to develop basic movement skills. Where the modified values of the game with this big ball contain important aspects for the development of movement and cognitive development of children.

Based on observations made in several elementary schools, mastery of basic movement skills has not been taught optimally by teachers. Because learning tends to lead to mastery of adult movement skills. The assumption that children are miniature adults causes teachers to teach skills that lead to the mastery of high-level skills.

The main goal of PJOK learning is how to make children move, be happy and participate actively. Children should be taught to do good and correct movements, if children are able to do the right movement activities and are carried out continuously then the child will have a strong and healthy body and better movement.

3.1 Needs Analysis

The results of the needs analysis of the importance of developing a game modification with a big ball with a play approach in order to develop basic movement skills in elementary school students for needs analysis from teachers showed that 90% said they needed it, 5% answered needed and 5% said it was not needed. Furthermore, the results of the needs analysis of the group of students showed that 80% said they needed it very much, 15% answered it was needed and 5% said it was not needed. This can be seen in the following table below:

Table 1. Analysis of the needs of the teacher group for modification of the big ball game

	Teacher	Percentage
Urgently require	20	80
Need	4	16
Less Need	0	0
No Need	1	4
Amount	25	100

Table 2. Analysis of the needs of the student group for modification of the big ball game

	Student	Percentage
Urgently require	60	80
Need	10	13.33
Less Need	0	0
No Need	5	6.67
amount	75	100

3.2 Product Validation

After the modification of the big ball game product with a play approach was made, the next step was to test the physical education learning expert. In this case, his opinion was asked on the modified product of the big ball game for elementary school students in order to develop basic movement skills. This expert validation aims to provide an assessment and input on the modified product of the big ball game with a play approach so that it meets the criteria that are theoretically and empirically feasible to be applied, in elementary school children. This is done so that the resulting product can be better and suitable for use.

The product that has been made is then shown to the physical education expert to assess how the product is developed. This test is given to 3 physical education experts to provide corrections and input and obtain assessment data for the modification of the big ball game with a play approach whether it is feasible or not to be tested, on a small or large scale. The following are suggestions from the three experts for a big ball game modification product with a playing approach.

Table 3. Product Revisions from Experts

No. POST	Expert 1		Expert 2		Expert 3	
	Reason for Revision	Repair Suggestions	Reason for Revision	Repair Suggestions	Reason for Revision	Repair Suggestions
Game Mod 1	The distance is too close	Better distance 3m	Distance is too short	Better 3m	The jump box is raised so that the child does not lose his balance	The box is raised to a size of 50 cm x 50 cm
Game Mod 2	The game boxes are made in color to make it more interesting	Use colorful chalk	The ball is too small	Doper ball as big as a coconut	Colored ball	Colorful balls to make it more interesting
Game Mod 3	The distance is too far, making it difficult for children to move	Distance 3m	The distance is too far	Distance 3m	The distance is too far	Distance 2m

Game mods 4	Target target is too small	Target zoomed in	Target distance is too far	Distance made 2 m	Students are divided into two groups	So that students don't wait too long for their turn
Game modification 5	Target made in color	Target will be interesting	ball more than 1.	There are 4 balls provided	The jump is not too high	The jump is made as high as 20 cm
Game modification 6	In accordance with basic movement skills	Basic moves, run, jump and sheet	Too many modifications	Made 4 variations of modifications	Modify from easy to difficult	Using basic motion principles

3.3 Small Group Trial

Product development results big ball game modification with play approach sehe continued, it was tested in small groups to see the effectiveness of existing products. Trialsproduct The modification of the big ball game with a play approach was carried out by 10 students from SDS Gajahmada. In the implementation of this small group trial, 10 students looked enthusiastic and enthusiastic in playing. Each student was curious and eager to try.

After 10 students of SDS Gajahmada Medan made modifications to the big ball game with a play approach, then the students were assessed based on the instrument's ability to assess students. To determine the effectiveness of the product can be seen the results of trials in small groups below:

Table 4. Small Group Trial Results

Respondents	Amount	P(%)
1	65	81.25
2	67	83.75
3	55	68.75
4	66	82.50
5	70	87.50
6	61	76.25
7	64	80.00
8	58	72.50
9	64	80.00
10	64	80.00
Amount	634	
AVERAGE = 72.04%		

From the value obtained, it is known that the empirical score obtained is 72.04% (Appropriate to Use) so it can be stated that the game product can be used.

3.4 Large Group Trial

The results of the development of the modification of the big ball game with the play approach were then tested in large groups to see the effectiveness of the existing products. The trial of the modified big ball game product with a play approach was carried out by 40

students from SDS Islam Al Ulum Terpadu, SDS Gajahmada, SDN No: 1017774, SDN No: 101775, SDN No: 101776 Medan City. The modified game of a big ball game with a playing approach that was carried out in a large group trial showed good student enthusiasm because students before being tested had been given several explanations. Next, see the results of the following assessment:

Table 5. Percentage (%) Large Group Trial

Respondents	amount	P (%)	Respondents	amount	P (%)
1	75	93.75	21	74	92.5
2	71	88.75	22	72	90
3	73	91.25	23	75	93.75
4	76	95	24	77	96.25
5	71	88.75	25	71	88.75
6	72	90	26	75	93.75
7	73	91.25	27	75	93.75
8	76	95	28	76	95
9	75	93.75	29	73	91.25
10	71	88.75	30	74	92.5
11	74	92.5	31	74	92.5
12	68	85	32	70	87.5
13	76	95	33	77	96.25
14	74	92.5	34	75	93.75
15	76	95	35	77	96.25
16	75	93.75	36	76	95
17	77	96.25	37	78	97.5
18	72	90	38	75	93.75
19	79	98.75	39	79	98.75
20	75	93.75	40	76	95
amount	1479		amount	1499	

From the value obtained, it is known that the empirical score obtained is 93.06 (Very Appropriate to Use). This means that this research is sufficient to determine the validity of the modified game of a big ball game with a play approach to basic movement abilities in elementary school students in Medan.

IV. Conclusion

The development of a modified big ball game with a play approach to basic movement skills in elementary school students based on a play approach is expected to assist teachers in teaching basic movement skills to elementary school students.

Furthermore, improving students' basic movement skills can develop optimally in accordance with the competency standards that have been set for elementary school students. With a play approach, elementary school students will carry out activities happily. This is because the games that are played will make students happy by actively moving.

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