International Journal of



Students Education

Page 530-535
ISSN 2988-1765
Vol 1 No 2 2023
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DEVELOPMENT OF IMAGE MEDIA USING FLANNEL CLOTH ON LEARNING OUTCOMES OF CLASS IV PRIMARY SCHOOL STUDENTS ON NATURAL SCIENCE MATERIALS (IPA)

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Abstract

The use of learning media in conveying natural science (science) material to fourth grade elementary school children is very necessary for teachers so that children become interested and happy, so that it will generate motivation in learning and curiosity in fourth grade elementary school children. The aim of this research is to determine the development of flannel board media to improve learning outcomes for fourth grade elementary school children. Types of development research (research and development). The development procedure according to 4D theory consists of four stages, 4D model consisting of define, design, develop, disseminate. After being carried out using flannel cloth, the learning outcomes of fourth grade elementary school children improved. The effectiveness of using flannel cloth media to improve the learning outcomes of fourth grade elementary schools in Langkat using flannel cloth media, it was proven that the learning outcomes of fourth grade elementary school children could improve.

Keywords: Learning Outcomes, Learning Media, Elementary School Children, Flannel Fabric

Introduction

Creating interesting learning activities requires the teacher's expertise in using learning aids which are usually referred to as learning media. The value of using media in the learning process can support and make it easier for teachers to convey learning material and also develop students' interest so that they are more active in learning. The learning process as forming knowledge and experience from the interaction of teachers and students. (Haris Budiman, 2016) in his research, explains that the use of learning media represents a tool that helps teachers in the learning process, by using visual media in the learning process it is possible for students to eradicate feelings of boredom rather than using a purely verbal learning process, so that for participants It becomes easier for students to accept the material spoken by the teacher during the learning process. (For Ramli Abdullah, 2016) explains that the consumption of learning media in the teaching and learning process can generate new desires and attention, generate motivation and stimulation of learning activities, and moreover have psychological influences on students. (Yuyu Yuliati, 2017) explains, judging from the characteristics of elementary school students, they are usually in the concrete operational thinking session, this has an impact on the choice of learning media that will be used, where in education the media used should be concrete media that can be operated directly so that the concept What is learned can be more easily accepted and understood by students. From some of these statements, it can be seen that the use of learning media is very valuable and necessary to make students interested in exploring the learning process. In reality, what often happens in the field is that teachers are still less innovative in providing interesting learning media so that the learning process is enjoyable. This is confirmed by several statements in the following research; (Nunu Mahnun, 2012) reported that many teachers still have static behavior in carrying out the

educational process, including teachers who have not implemented educational media properly. This is caused by the lack of innovative behavior and expertise in selecting and developing media possessed by teachers. Another tendency is that some teachers still use conventional methods in carrying out the educational process.

The lack of innovative behavior and expertise in selecting and developing media possessed by teachers, another tendency for some teachers to still use conventional methods in carrying out the learning process. (For Ni Luh Made Setiawati et al, 2015) teachers are aware that without media, learning materials are difficult for each student to process and understand, especially complex learning materials. But in reality, many teachers do not use media to deliver material. This is related to Marlina et al, who stated that it was difficult to master science concepts because the learning process was still informative. Not only that, it is also caused by students' low intellectual skills. On the other hand, the content of science subjects demands great intellectuality. Yuyu Yuliati, reported that the factors that trigger the lack of explanation of science concepts felt by students include the initial knowledge (preconceptions) possessed by the students themselves, the teacher, or the learning attempted by the teacher. Learning is a process or effort carried out by each individual to obtain a change in behavior both in the form of knowledge, skills and an initial attitude of not knowing. (Bell-Gredler in Karwono, 2017) states that "Learning is a process carried out by humans to acquire various abilities, skills and attitudes that are acquired gradually and continuously". (Suardi and Marwan, 2019) "Learning is a process of continuous change in behavior between various elements and lasts a lifetime which is driven by various aspects such as motivation, emotion, attitude and others, and ultimately produces the expected behavior. Elements The main thing in learning is the individual as a learning participant, needs as a source of motivation, learning situations, which provide the possibility for learning activities to occur. (Ridwan Abdullah Sani, 2019) "Learning and learning are the main activities carried out in an educational process. Learning activities will be carried out if students are given the opportunity to take part in the learning process. Likewise, the learning process will proceed well if students are involved in learning. In general, learning can be interpreted as a process of acquiring competencies. The competencies in question include knowledge, skills and attitudes. (Henni Mularsih 2017) "The word learning comes from the word learning which has the prefix "pem" and the suffix "an" indicating that there are elements from outside (external) which are "intervention" so that the learning process occurs, so learning is an effort made by external factors so that the learning process occurs in the individual who learns".

Learning efforts basically function as an external stimulus to help someone learn. (Karwono, 2020) "Learning as an instructional system refers to the definition of a set of components that depend on each other to achieve goals. As a learning system, it includes a number of components, including learning objectives, teaching materials, students receiving learning services, teachers, methods and approaches, situations, infrastructure and evaluation of learning progress. In order for this goal to be achieved, all existing components must be well organized so that the components work together. Specifically, in the learning process the teacher plays a role as an external component that organizes the learning process. (Erwin Widiasworo, 2017) "Learning is a system or process of learning a student or learning subject that is planned or designed, implemented and evaluated systematically so that the student or learning subject can achieve learning objectives effectively and efficiently. Learning objectives or also known as Instructional objectives are basically a formulation of the forms of behavior that students will have after carrying out the learning process, or after following the learning process. Learning outcomes are changes in abilities that occur in students which are marked by changes in behavior in the form of mastery of knowledge or understanding, skills and learning outcomes must be meaningful for the students themselves in generating student creativity. (Ridwan Abdullah Sani, 2019) states "Learning outcomes are changes in behavior or competencies (attitudes, knowledge, skills) that students acquire after going through learning activities." (Ahmad Susanto, 2016) states "learning outcomes are changes that occur in students, both regarding cognitive, effective and psychomotor aspects as a result of learning activities". Based on the opinion above, it can be concluded that learning outcomes are the result of efforts achieved by a person through making learning in the form of abilities shown by numbers. Learning outcomes are evidence or indicators of the success of the teaching and learning process and student learning outcomes are the level of ability that students have in accepting, rejecting and assessing information obtained in the teaching and learning process.

The word "media" comes from the Latin word, is the plural form of the word "medium". Literally the word means intermediary or introduction, but now the word is used both in the plural and in the plural form. Rudi Susilana and Cepi (Riyana, 2016) "Media is one of the determining factors for the success of learning." Through media the learning process can be more interesting and enjoyable. Another important aspect of using media is that it helps clarify learning messages. Information conveyed verbally is sometimes not fully understood by students, especially if the teacher is not competent in explaining the material. This is where the role of media is as a tool to help clarify learning messages. (Imas Kurniasih and Berlin Sani, 2017) "Learning media can be interpreted as an

intermediary for the delivery of learning messages (message learning) from the message source (message resource) to the message recipient (message receive) so that teaching and learning interactions occur. Where in learning media there are two elements contained, namely the message or teaching materials that will be delivered or the software and display tools or hardware. The successful use of media cannot be separated from how well the media is planned. "Media that can change student behavior and improve certain student learning outcomes cannot take place spontaneously, but requires comprehensive analysis by paying attention to aspects that can influence the success of their learning." Flannel cloth media can be used to direct different styles, develop vocabulary, dramatize, develop concepts, give messages about the main points of the story, create diagrams, graphs, and the like. Flannel cloth is an effective graphic medium for presenting certain messages to certain targets. These flannel covered messages can be folded so that they are instant and can be used repeatedly because of their instant (sudden) presentation, not only attracting students' attention, the use of boards Flannel can also make servings more efficient.

Flannel cloth is often referred to as a visual media board, which is a board covered with flannel cloth on which are placed pieces of photos or other symbols which are usually called flannel items. On the other hand, the definition of flannel cloth media is a board covered with flannel cloth which is effective for presenting messages visually through photos or writing that are displayed and can be removed easily. Based on these comments, it can be seen that flannel cloth media is a board medium with flannel cloth equipped with flannel cloth items that can attract students' attention effectively and can be used repeatedly. (Yuliani Nuraini Sujiano, 2011) states that children increase their knowledge through activating their sensors and five senses, so using this flannel board supports children to improve their cognitive skills by looking, observing photos and symbols displayed and participating in using the media. Children can also master the concept of addition and encourage children to think, not just remember. The benefits of flannel board include: a). Visualizing an idea through the placement of letters. Images, motifs and other symbols. b). It is like a game arena to train students' courage and skills in selecting appropriate adhesive materials. c). Channeling students' talents and attention in drawing, coloring, writing and so on. The definition of some of these comments conveys the conclusion that flannel board media is used to facilitate learning explanations to increase students' interest in the educational process. Based on the explanation above, it can be understood that flannel cloth media is a flat board medium covered with flannel cloth on which pictures can be placed to facilitate the learning process, especially in science learning for fourth grade elementary school children and has never been applied, this is based on the results of interviews with fourth grade elementary school teacher.

Research Methodology

The type of research carried out is the research and development method. Research and Development (R&D) is a research method used to produce certain products and test the effectiveness of the method. In the field of education, research and development or Research and Development (R&D), is a research method used to develop or validate products used in education and learning. (Hanafi, 2017) The research and development procedures in this research use 4D model research and development procedures. The stages in this development are: Define, Design, Develop, Disseminate. The following is an explanation of the development research steps carried out by researchers: (Rizki & Linuhung, 2017)

Definition Stage (Define)

This define stage includes four main steps, namely front-end analysis, concept analysis, task analysis, and formulation of learning objectives (specifying instructional objectives).

Design Stage (Design)

At this design stage the aim is to design teaching materials for learning devices to obtain an initial draft.

Development Stage (Develop)

The aim of this stage is to produce module teaching materials. The activities carried out at this stage by the researcher validated the module teaching materials with material experts and media experts, after that they carried out trials of children's responses and teacher responses.

Dissemination Stage (Dessiminate)

The deciminate stage is the final stage of development. The dissemination stage is carried out to promote the development product so that it can be accepted by users, whether individuals, groups or systems. This dissemination stage is carried out by distributing learning media products to the schools studied in the research.

Result & Discussion

Product Validation

Media Expert

Validation is aimed at media experts, who in this case are lecturers who have educational qualifications, so that the results of the media that will be developed are in accordance with what the author hopes and can be used by fourth grade elementary school children. From the validation results from media experts, it can be seen that flannel board media received an average score of 4, so it can be said that flannel board media is considered very good.

Materials Expert

Validation is aimed at material experts, who in this case are lecturers who have qualifications in Elementary School Children's Education, so that the material in the media that will be developed is in accordance with what the author hopes and has an impact on improving children's learning outcomes. The validation results from material experts show that the flannel fabric media obtained an average score of 3.75, so it can be said that the flannel fabric media is said to be very good.

Trials

The results of this research are not only to develop a product, but also to find knowledge or answers to practical problems. The product developed in this research is flannel cloth media to develop the learning outcomes of fourth grade elementary school children. The following is the development of flannel cloth media for fourth grade elementary school children:

- a. Development of Flannel Fabric Media for Class IV Elementary School Children
 Based on the daily learning implementation plan (RPPH), the researcher describes the learning steps in using
 flannel board media, namely:
 - 1. Prepare learning media in the form of flannel cloth
 Based on the results of observations, it is known that the material that will be presented by the researcher is
 the theme of animal life cycles using flannel cloth media, so the researcher first prepared learning media in
 the form of flannel cloth.
 - 2. Communicate learning objectives and themes
 Based on observations, the media is ready and the students' sitting position is in accordance with what the researcher wants. So the next step is for researchers to start communicating animal life cycle material to fourth grade elementary school children.
 - 3. Demonstrate how to use flannel media for children
 Based on the results of observations after the children understood the material on the theme of animal life
 cycles that had been presented by the researcher. So the next step was for the researcher to demonstrate
 how to use flannel media for children, then the children were asked to pay close attention to the
 researcher's explanation.
 - 4. Children are asked to classify pictures by color Based on the results of observations, it can be seen that children have begun to be able to classify or group pictures based on color.
 - 5. Children are asked to explain why they attach pictures to certain parts
 Based on the results of observations, flannel cloth media is used so that children can explain the reasons
 why the child places or attaches pictures to certain parts, so this flannel cloth medium aims to make
 children know the causes and effects of something happening.
 - 6. Children are asked to classify pictures based on their type
 Based on the results of observations, children are able to classify pictures based on color and are able to
 explain why children place or stick pictures in certain parts. So the next step is that children are asked to
 classify the images based on their type.
 - 7. Children are asked to sort the pictures by size or color
 Based on the results of observations, the final activity in the learning steps using flannel media is that children are asked to sort the pictures based on size or color.

Effectiveness of Using Flannel Cloth Media to Improve Aspects of Children's Learning Outcomes

After conducting research using flannel cloth as a medium, it was proven that the learning outcomes of fourth grade elementary school children had increased, so researchers took the initiative to test the effectiveness of flannel cloth media in other schools. Researchers conducted trials using flannel cloth media in the environment

around the area where they live by implementing steps in accordance with the steps that researchers have implemented in elementary schools that have been researched and the children were very enthusiastic about participating in the learning process with flannel cloth media, apart from the easy use of media, the children in This school has also never played using flannel as a medium. So that it can improve learning outcomes. Before using flannel cloth media, the learning outcomes of fourth grade elementary school children out of a total of 12 children who received the category of not yet reaching the KKM were 7 children, 5 children who received the adequate learning outcome category, while no one received the satisfactory learning outcome category. Then, after using flannel as a medium, the learning outcomes of fourth grade elementary school children have improved. The ability of children who received the Fair category was 6 children, 5 children in the Good category and 1 child in the Very Good category, while categories with scores below the KKM no longer existed. Product Advantages and Disadvantages

a. Excess

The advantages of flannel fabric media are: (1) The size is suitable for elementary school children (2) The colors used are attractive for elementary school children, because they consist of several colors including blue, pink, yellow, purple, red, light blue and green (3) The image is easy to attach, because there is adhesive.

b. Lack

The disadvantages of flannel fabric media are: (1) The amount of flannel media is not sufficient for children's needs (2) Images on flannel media are easily lost because they are not a complete unit.

Flannel cloth media is a very effective graphic media for presenting certain messages to certain targets. (Farida et al., 2021) Meanwhile, according to another opinion, flannel cloth media is a learning media with boards as the main raw material that can be designed according to wishes. Flannel cloth media is a board covered with flannel cloth for placing something on it . (Anggraeni, 2015) Flannel cloth media is a board covered with flannel cloth or furry cloth where later on the board pieces of pictures or other symbols are placed. Meanwhile, according to another opinion, flannel board media is a board covered with flannel cloth for placing pieces of pictures or other symbols . (Kholid, 1998) Based on this explanation it can be concluded that flannel board media is a flat board medium covered with flannel cloth on which it can be placed, some pictures.

Conclusion

Based on the data description and discussion of the research results presented, it can be concluded that the development of flannel fabric media with a 4D model consisting of define, design, develop, disseminate. After being carried out using flannel cloth, the learning outcomes of fourth grade elementary school children improved. The suggestions that can be put forward as a follow-up based on the results of the research are that it is hoped that there will be development of similar media so as to increase the choice of media that can be used in science learning in a fun and effective way and that science language teachers are willing to use flannel as one of the media that will help the learning process. teaching and as a reference in creating a more creative, innovative and enjoyable learning atmosphere.

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