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by Sunarti Sunarti

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Development of Animation-Based Fairy Tales Learning Model for Elementary School Students

1. Sugarti

Postgraduate Department Universitas PGRI Yogyakarta
Jl. PGRI I Sonosewu No. 117 Yogyakarta 55182 Telp. (0274) 376808, Fax.
(2740) 376808 | Email: bunartisadja@gmail.com

2. Selly Rahmawati

Elementary school Teacher Education department
Jl. PGRI I Sonosewu No. 117 Yogyakarta 55182 Telp. (0274) 376808,
Fax. (2740) 376808

3. Setia Wardani

Information Technology Department, Universitas PGRI Yogyakarta
Jl. PGRI I Sonosewu No. 117 Yogyakarta 55182 Telp. (0274) 376808, Fax.
(2740) 376808

Abstract: The purpose of this research is developing an animation-based fairy tale as a teaching model for elementary students. In addition, this study is also intended to determine the effectiveness of animation-based fairy tale as a teaching model. This research type is research of development with subject is elementary students in Elementary School Sonosewu. Methods of data collection used observation, questionnaires and tests. Product testing was conducted in 2 classes, namely class IIIB with the number of 22 students as the experimental class, namely classes with learning using animated fairy tale learning models, and class III A with a total of 23 students as control classes, videlicet classes with animated learning models.

The data analysis technique to be used is quantitative approach with t-test independent sample. Output targets to be generated in the study are: (1) Design of animation-based fairy tales for elementary students developed with 6 steps of research and development i.e. research and gathering, planning, product draft development, initial field trials, revising test results and field trials. (2) An animation-based fairy tale model is effective in improving Civics achievement and Indonesian achievement.

Keywords: Learning Model, Tale, Animation

INTRODUCTION

Fairy tale is a simple imagination story which functions as delivering moral value (education) and amusement. Fairy tale spread heredity and consider as most important in moral value in the story based on the condition of an area. There is a delineation of people authenticity which reflects their behavior and culture of a society. (AgusTriyanto, 2007).

Based on the research of Lidia P. Kovalchuk (2015: 474), fairy tales grow and develop through people who were interrelated with them with excessive life experiences. Simple children's tales represent the community to express reality by connecting the peculiarities of the natural world and animals when experiencing society.

Fairy tale generally is shown through media as books, television, CD, and DVD. Other ways of presentation can be in a theater, drama, and opera. It is also done by reading, listening and watching. By watching, people will observe the roles clearly and attractively. By performance, fairy tale possesses value that it could be received by audience because the characters are moving. It is also with music. But in this modern IT development, fairy tale is forgotten. Many children do not know it. They prefer watching film and playing games in the cell phone and computer. Whereas Joseph Frank as cited by Asfandiyar (2007) mentions that fairy tale can be an effective method in developing cognitive, affective, and conative aspects of children.

Kilic (2015) also stated that donggeng is an important genre in literature because it enriches imagination and prepares students' future character, namely sensitivity in socializing, friendliness, respect for others, positive thinking, curiosity and responsibility. In line with the research above, Tucker's research (1972) also found that fairy tales such as folklore and legend, contained interesting plots that supported students to learn and internalize the values of social life.

The model of story-telling in the schools generally was done by reading from the story books, using illustration and books, using flannel board, using dolls, using finger dolls (Nurlaily, 2010). Those models were not interesting to children as the development of children attention to IT.

Animation media enrich students' experience and competition through the learning material. Agina (in Rahmatullah, 2013) explains that the use of animation in learning may improve quality and learning output. It has the same as the research of Yosi Rotbain, Gili Marbach-Ad and Ruth Stavy titled *Using Computer Animation To Teach High School Molecular Biology* shows that computer animation in learning biology can improve learning achievement. Various models of animation-based learning prove to improve students' achievement. Finally, as those explanations, the animation-based fairy tale is needed to develop to continue fairy tale and improve students' achievement.

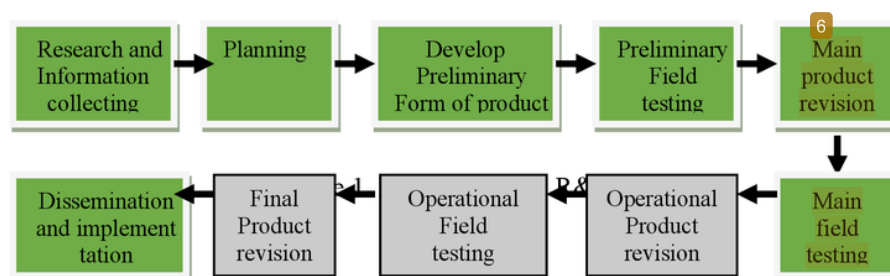
MATERIALS AND METHODS

a. Study Area

The study was conducted in Yogyakarta area. The experiment of the fairy tale animation-based learning was done in Elementary School Sonosewu Yogyakarta. The object of the study was the model of fairy tale animation-based. The subject of the study were the students of grades 3a and 3b in Elementary School Sonosewu.

b. Procedures

Model of development used **Research and Development (R&D)**. Borg and Gall (2003) mention **10 steps** in research and development study; those are as mentioned in the table. But this study used only step 1 to 6, because of the limited time.



Data analysis

To know the effectiveness of the learning using animation-based fairy tale, the analyzed data is inferential statistical analysis technic with t-test independent sample.

3. Results

Development of Animation-Based Fairy Tale Learning Model

Development of animation-based fairy tale learning model was conducted in 7 steps, they were Research and Information collecting, Planning, Develop Preliminary Form of product, Preliminary Field testing, Main product revision, Main field testing, and Dissemination and implementation. In the research and information collecting, based on the result of the interview, it was known students' knowledge about the fairy tale was very lack and teacher has not implement the animation-based fairy tale learning in the classroom.

In the planning step, thematic learning model was chosen to develop animation-based fairy tale learning. Based on Depdiknas (Trianto, 2011) thematic learning as learning model is one of the integrated learning models. The term of thematic learning is an integrated learning which uses theme for correlates some subjects so that can give meaningful experience for students. In the step of Develop Preliminary Form of Product, there were five steps as seen below.

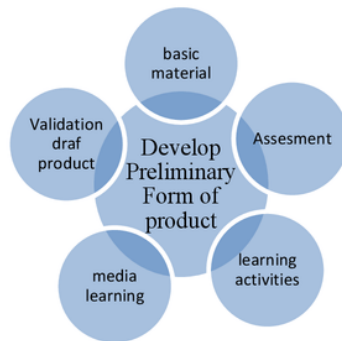


Figure 2. Develop preliminary form of product steps

Basic Material which was chosen by the researcher was the material of Yogyakarta fairy tales. In Yogyakarta, there are two fairy tales which are known, Candi Sewu (Roro Jonggrang) and Kali Gajah Wong. Assessment used in this study was Indonesian language evaluation and moral value (PKn) evaluation.

Concept of Learning Activity of animation-based fairy tale learning model can be seen in the following table.

Steps	Teacher's Behavior
Fase-1 Introduction	<ol style="list-style-type: none"> 1. Correlating recent material and past material 2. Motivating students 3. Giving questions to students to know requirement concepts which are got by students. 4. Explaining learning theme 5. Explaining learning objectives from moral Value (PKn) and Indonesian Language subjects (KD and Indicator)
Fase-2 Material Presentation	Presentation of concepts required by student through animation-based fairy tale
Fase-3 Guiding Training	<ol style="list-style-type: none"> 1. Distributing the book and evaluation sheet 2. Asking student to do the evaluation sheet 3. Giving guidance as needed.
Fase-4 Comprehension and feed back	<ol style="list-style-type: none"> 1. Asking student to read the answer of the evaluation 2. Confirming the student's answer 3. Giving feed back to the student's answer 4. Giving reflection to the student's answer.
Fase-5 Evolving by giving chance to follow up training and implementation	<ol style="list-style-type: none"> 1. Guiding students to conclude the learning material 2. Giving homework
Fase-6 Analyzing and evaluating	Teacher helps students to reflect or evaluate the result of the task.

This model of animation-based fairy tale focused on the second step. It consists of some steps, as the following.

1. Students pay attention to the media of animation-based fairy tale which are Kali Gajah Wong and Candi Sewu tales.
2. Students tell the story orally by their own sentences in front of the other students.
3. Students conclude the messages content in the stories and mention the moral values form those two tales.

Learning media animation-based is a supporting system from the learning model. The design of the media is shown in the following schema.

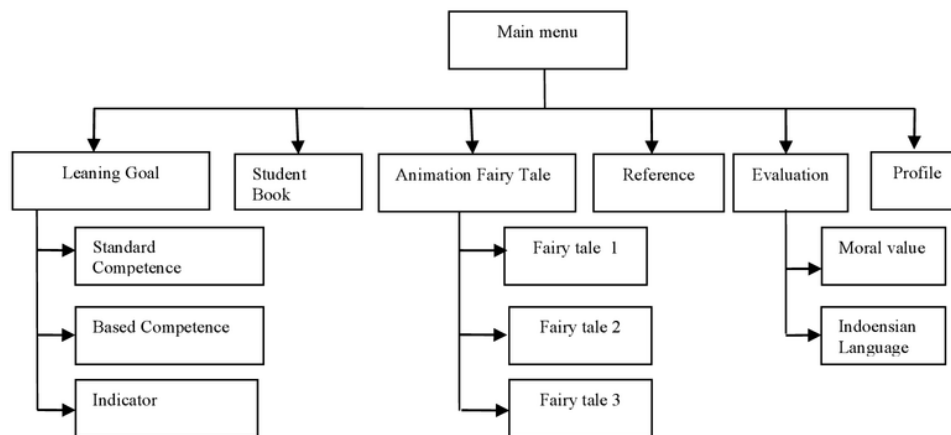


Figure 3. The Design of The Media

Validation draf product conducted by learning model experts, IT experts, Civics material experts and Indonesian material experts. Based on the expert's assessment it can be concluded that the quality of learning media for this animation-based fairy tale learning model is one of good criteria

At the Preliminary Field testing stage, it was conducted by 5 grade 3a elementary school students from SD Sonosewu and elementary school students 3a SD SD Sonosewu. Based on student response questionnaire data and teacher response questionnaire it was known that the quality of animation-based fairy tale learning model was classified as good criteria.

in the main product revision stage, revision of the design was carried out according to the results of the assessment and input provided by the model experts and material experts.

In the Main field testing stage, it was known that the data description for the control class and experimental class was as follows.

	Control class				Experimental class			
	Min value	Max value	Mean	Elementary School	Min value	Max value	Mean	Elementary School
Civics Achievement	65	83	73.78	4.671	75	90	81.59	4.787
Indonesian Language Achievement	60	70	65.39	3.201	66	85	75.77	5.571

Effectiveness of Animated Fairy Tales Learning Models

Aspect	t-value	Significance value	explanation
Civics Achievement	-5.538	0,000	There is a significant difference
Indonesian Language Achievement	-7.707	0,000	There is a significant difference

1
Based on the t-test data, it can be seen that the significance value of Civics and Indonesian Language achievements is smaller than 0.05 so that H_0 is rejected and H_a is accepted. This shows that there are differences in Civics and Indonesian Language achievements between those who use fairytale learning models based on animation and lecture models. The negative value of t indicates that Civics and Indonesian Language achievements in animation-based fairy-tale learning groups are better than Civics achievements and Indonesian language achievement in the learning model is superficial. Thus it can be concluded that the animation-based fairy tale learning model to improve the achievement of Civics and Indonesian Language

4. Discussion

Based on the result of the study, it can be known that the learning achievement of moral value and Indonesian language using animation-based fairy tale learning model is more effective that using explanation learning model. According to Smiyati and Asra (2011), learning by using story telling method is very needed for students who step into end of kindergarten year, and 6-12 year old students. It is because they can think logically and critically.

Joseph Frank as cited by Asfandiyar (2007) says that fairy tale can be an effective method to develop cognitive, affective, social and conative aspects of children. It is in accordance with the research conducted by Satinem and Achmad (2015) who said that the learning process folkloreusing a thematic approach is applied to the third grade elementary school studentsproved effective because process of integrative folk lore learning is given by integrating four components of language skills; listening, speaking, reading, and writing, into activities based on the chosen theme; can create fun learning and not boring situation.

Burns (2001) mentions that story telling functions as strategy in growing positive attitude to children. Fairy tale or story also functions as entertaining, educating,

forcing emotion, imagination and creativity, and improving language competence, as well as adding language vocabularies to students. Fairy tale can create a space of thought that children become critical and smart.

Besides, Collin (in Nur, 2010) says that fairy tale prepares conceptual framework to think which allows children form whole experience they acquire. Fairy tale causes children map experience mentally and see an image in their head. It is supported by Itadz (2008), who explains that there are some point of view of fairy tale functions. Those are to help self-figure and children morality, force children's verbal skill, motivate children to write, open childrens' knowledge.

Based on the theory of Gestalt learning (Rusman, 2012), object or specific event will be viewed as a whole organized thing. Meaning of an object/event is in the whole form and not in the part of it. Learning will be more meaningful if the material is given intact. It shows that for achieving learning goal must notice the whole structures and components of the learning process. The developed fairy tale thematic learning in this study conducts a whole learning that children can comprehend the meaning of the material.

Nazla Maharani Umaya (2017) proved that local stories / tales adapted to learning media was effective learning innovations to facilitate students learning. The fairy tale learning model developed in this study was supported by animation-based learning media. Based on the research of Mayer and Anderson (1992), learning with the most effective media was instructional image learning media where images and words appear together in one space and time.

Based on theory of Neo in Munir (2008), the benefits of animation are:

- a. Bringing information in one basis form which is performed.
- b. Giving the emphasis because changing and moving information can attract audience attention to see and motivate them to act.
- c. Preserving a visual connection and attract audience attention unconsciously from the prepared theme.
- d. Students will learn fast and possess good attitude.
- e. Flexible, practical, consistent, and attractive.

According to Harrison and Hummell in Rahmatullah (2013) state that animation-based media enrich experience and students' competence in various subject. The use of animation in learning activity can improve quality of process and result of learning. In the research of Yigal and Rosen (2009) also proved that the learning environment supported by animation-based media had a large impact on the process of transferring knowledge and student motivation.

Those some theories explain that the thematic learning model implemented result whole learning so that students can catch the meaning of the learning or subject. Fairy tale learning model can improve achievement because growing positive attitude to learning process, serving a conceptual framework to think, mapping experience mentally and seeing image, as well as open children's knowledge. Learning model which is completed with animation can also make information clearer and emphasize the important information so students deeply comprehend the

subject. Then, the animation-based fairy tale learning model is interesting to students so that can improve students' comprehension. Finally, this animation-based fairy tale learning model improves process of learning and student's leaning achievement.

5. Conclusion

- a. Development of animation-based fairy tale leaning model was conducted in 7 steps, they were Research and Information collecting, Planning, Develop Preliminary Form of product, Preliminary Field testing, Main product revision, Main field testing, and Dissemination and implementation.
- b. Validation draft product was conducted by the learning model expert, IT expert, moral value material expert, and Indonesian Language material expert. Based on the result, it can be concluded that learning media for animation-based fairy tale learning model was included in good criterion.
- c. Model of animation-based fairy tale is effective to improve moral value and Indonesian language achievements. Based on the t-test, it can be seen that the achievement significant score of moral value and Indonesian language subject is lower than 0,05, so that Ho is rejected and Ha is received

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