The effectiveness of pop-up book media in learning reading skills of grade II elementary school

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ABSTRACT
Learning media has a crucial role in improving students’ skills. Recently learning media in the form of Pop Up Books has been very popular with elementary school students. This quasi-experimental study aims to test the effectiveness of Pop Up Book media in learning reading skills in grade II Elementary School. Randomly class II B was assigned as an experimental class, taking reading lessons using Pop Up Book media, and class II-A, as a control class, participating in reading lessons using ordinary picture media. Data collection techniques use performance tests to assess 6 aspects of reading skills, namely accuracy in voicing writing, pronunciation reasonableness, intonation, fluency, voice clarity, and word understanding. The validity of the test items ranged from 0.65 – to 0.70, with a reliability index of 0.704. The average value of reading skills from the experimental class students’ pre-test results was 63.96, and 62.29 in the control class students. From the different test results, the pretest score obtained a t value of 0.887 at sig. 0.380. It can be concluded that there is no difference in reading skills between the two groups before the treatment was carried out. After the learning was carried out, the average post-test scores of the experimental class students were 81.56 and 65.38, control class students. The results of hypothesis testing obtained a value of t 7.252 on sig. 0.000. It can be concluded that there is a very significant difference in reading skills between the experimental class and the control class. The study concluded that the Pop Up Book media was effective for improving the reading skills of second-grade elementary school students.

Keywords: Pop Up Book Media, Reading Skills.

INTRODUCTION
Reading is a very important activity for everyone. Nurjamal, et al stated, that reading is the key for someone to get information, so the more you read, the more information you get from the words read the word (Nurjamal, 2011). In learning at school, reading is used to get information from various sources. With good reading skills, students will be able to channel or transfer information from written to oral well. This reading activity can also increase students' oral language skills (Yong & Abdullah, 2022). Therefore, reading is one of the main activities in learning activities.

Reading is an activity to pick meaning and understand the meaning contained in reading material in the form of writing consisting of letters, as well as reading symbols. (Farry-Thorn & Treiman, 2022; Somadayo, 2011). Reading is a process carried out and used by readers to get the message the author wants to convey through the form of words or written language (Albuquerque & Martins, 2022; Tabroni et al., 2020; Tarigan, 2010). Reading is an effort made by someone to find and understand various information that is in writing and requires cognitive processing (Dalman, 2013; Huang et al., 2019). Gumono states, that reading is the process of finding information or ideas from texts through the process of understanding writing, then mixing and
matching with existing knowledge into a new form of knowledge. (Gumono, 2014; Welbl et al., 2018).

Reading skills are influenced by six factors, (1) Physiological factors include physical health, neurological considerations, gender, and fatigue. Physical deficiency is one of the factors that can cause children to fail to read, for example, the health of speech, vision, and hearing devices that cannot function properly. (2) The intellectual level is individual thinking process skills to act according to goals, think rationally, and form effectively on the environment, but in general children's intellectuals do not fully influence the success or failure of children in reading, (3) Factors environment that can shape the personality, attitudes and language skills of children. Collection of books and love to read stories to children, usually spur children to enjoy reading so that experiences will emerge in children, (4) Socio-economic factors of parents and the environment are factors that shape the student's home environment. The higher the socioeconomic status of students, the higher their verbal skills of students. Children who live in a house that provides reading, and many reading activities will have higher reading skills, (5) Psychological factors include two factors that are, motivation and interest in children's reading activities. Learning motivation is influenced by interest and student learning outcomes, interest is one of a factor that can affect student learning, (6) Reading material is the most important aspect in learning to read because it will please children if the presentation is accompanied by interesting pictures (Kristina, 2019).

Factors of difficulty or low reading skills caused by the following things (1) Students are not familiar with letters, (2) Students do not understand the sentences they read, (3) Students are not fluent in reading, (4) Students make mistakes in pronouncing letters that sound similar, such as the sound of the letter b with p, (5) Students do not master punctuation (Afrom, 2013).

Improving students' reading skills is a teacher's duty and obligation. In developing students' reading skills, teachers can provide interesting books, use media, and learning methods that are following student development (Lestari, 2018). The selection of the right media can help students in developing students reading skills (Syamsi, 2000).

The problem is how is the implementation of reading skills development by teachers in schools? How are students' reading skills? How is the selection of the learning method used? How is the selection of reading materials used? How is the selection of media used? How is the assessment model used? Many interesting questions need to be studied empirically so that the teacher's efforts to improve students' reading skills can be carried out properly.

This study aims to examine the effectiveness of one of the interesting learning media used in learning to read in grade II Elementary School to improve students' reading skills, namely Pop Up Book media. Pop Up Book is a book that has an interest in every part, which has 3-dimensional elements so that it provides an interesting visualization for the reader. Pop Up Book media can give an interesting impression and entertainment for students. Media Pop Up Book in it has an illustration image that appears when opened. The material presented in the form of attractive images gives the impression that it arises so that it attracts attention (Deví & Maisarah, 2017; Dzuanda, 2009).

Van Dyak stated that Pop Up Book media has many advantages, namely (a) Widely used in explaining complex images such as health, school materials, and technology, Pop Up Book media is one of the strategies for effective and interactive learning, and aims to create fun learning, (b) Visually depict, assist students in developing vision with pictures and writing to provide understanding, (c) Add new experiences (Van Dyk, 2010). According to Dzuanda, the advantages include (a) Providing an interesting story starting from the presence of a dimensional display such as in the picture and when the book is opened, certain parts can be shifted, (b) Giving a surprise which will give an amazing impression when the page of the Pop Up Book is opened by the reader, (c) The impression conveyed in a story is getting stronger, (d) An attractive display with 3 dimensions makes the story feel real with the addition of surprises in the story. next page (Dzuanda, 2009).

Several studies have proven that Pop Up Books are effectively used as learning media. From the research results of Ratnasari, Karlimah, Elan. In his research entitled "The Effectiveness of Fractional Number Pop Up Book Media on Increasing Students' Understanding of the Basic
Concepts of Fractions in Class III State Elementary School 2 Cibunigeulis, Bungursari District, Tasikmalaya City” information was obtained that increasing students’ understanding of the basic concepts of fractions in classes using media Pop Up Book books are better than improving students' understanding in classes that do not use Pop Up Books (Ratnasari et al., 2018). Another study conducted by Siti Nur Jannah, PGSD FIP, State University of Surabaya, entitled "The Effect of Pop Up Book Media Usage on Writing Skills for Class IV Students of SD N Babatan 1 Surabaya". From the results of the experiment, it was concluded that the use of Pop Up Book media affected the Writing Skills of the Fourth Grade Elementary School Students (Jannah & Sukidi, 2018).

Research related to reading problems was carried out by Sukmawati & Cahyani, Postgraduate School of the University of Indonesia Education with the title "Effectiveness of the Concentrated Language Encounter (CLE) Model in Improving Reading Skills for Elementary School Students". From his research, information is obtained that there is a difference in improvement between students who get learning to read with the CLE model and those without using the CLE model (Sukmawati & Cahyani, 2016b).

However, the research that has been done still focuses on testing Pop Up Book media on writing skills and the basic concept of fractions. The difference in the research conducted lies in focus on measuring students' reading abilities. This is important because Pop Up Book media has an appeal on every page that makes students interested in reading to understand its contents. In addition, the Pop Up Book media has pictures and colors that can increase students’ interest in reading. The main contribution to this research is to measure the effectiveness of Pop Up Book learning media on elementary school students’ reading skills.

From the description above, it can be concluded that learning media is one of the important components of learning. Pop Up Book media can make the reading learning process run in a happy atmosphere. The use of Pop Up Book media will make students interested in reading. Indirectly students develop reading skills, so they can read well. The hypothesis in this study is that there are differences in students' reading skills based on the learning media used. The main contributions of this study are (1) classifying the reading skills of grade II elementary school students. (2) Application of Pop Up Book learning media in classroom learning. (3) Testing the application of Pop Up Book learning media in both control and experimental classes.

METHOD

The core part of the method is presented regarding research subjects, data collection techniques, research instruments used, and testing the validity and reliability of the instrument. In the final section, it is explained about statistical testing for the hypothesis used.

Types, Subjects, Collection Techniques, and Research Instruments

This type of research uses Quasi-Experiments. Quasi-Experiment is used to determine the effectiveness of using Pop Up Book media with two classes, namely the experimental class and the control class. The basis for using Quasi-Experiments is that they cannot fully control the research variables (Jana et al., 2021). The research design uses a nonequivalent control group design, as shown in Figure 1.

![Figure 1. Research Design Nonequivalent control group design](image-url)
Information:
O1: Measurement of the initial ability (pre-test) of the experimental group.
O2: Measurement of the final ability (post-test) of the experimental group.
X: Giving treatment to the experimental class in the form of using media Pop Up Book learning
O3: Measurement of initial ability (pre-test) of the control group
O4: Measurement of final ability (post-test) of control group

The subjects of this study were students of class IIA and IIB elementary schools in the Special Region of Yogyakarta. Class B was used as the experimental class and class A as the control class which was determined randomly. Data were collected by using observation and test techniques. Observation is used to make observations and records in the implementation of learning in the experimental class and control class. The test technique was used for pre-test and post-test. The test data of the test instrument were analyzed to test the validity and reliability.

The Reading Skills Test developed is the Reading Practice Performance Test. Students' reading skills are assessed using six aspects. These aspects are writing vocal skills, pronunciation fairness, intonation fairness, fluency, sound clarity, and understanding of the meaning of words. The six aspects are measured on a scale of 1 to 4. The meaning of the score is a gradation from very good (4), good (3), enough (2), and less (1) (Anggraeni & Alpian, 2020).

Data from the test results of the Reading Skills Test were analyzed with the help of a computer program, namely IMB SPSS Statistic version 21. The results of the instrument item validity test are presented in table 1.

<table>
<thead>
<tr>
<th>No Item</th>
<th>r-Grain</th>
<th>Sig. (2-tailed)</th>
<th>Test</th>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 1</td>
<td>0.682</td>
<td>0.000</td>
<td>Sig. &gt; 0.05</td>
<td>Valid</td>
</tr>
<tr>
<td>Item 2</td>
<td>0.675</td>
<td>0.000</td>
<td>Sig. &gt; 0.05</td>
<td>Valid</td>
</tr>
<tr>
<td>Item 3</td>
<td>0.570</td>
<td>0.000</td>
<td>Sig. &gt; 0.05</td>
<td>Valid</td>
</tr>
<tr>
<td>Item 4</td>
<td>0.633</td>
<td>0.000</td>
<td>Sig. &gt; 0.05</td>
<td>Valid</td>
</tr>
<tr>
<td>Item 5</td>
<td>0.700</td>
<td>0.000</td>
<td>Sig. &gt; 0.05</td>
<td>Valid</td>
</tr>
<tr>
<td>Item 6</td>
<td>0.563</td>
<td>0.000</td>
<td>Sig. &gt; 0.05</td>
<td>Valid</td>
</tr>
</tbody>
</table>

The results of testing the reliability of the reading ability assessment instrument are presented in table 2.

<table>
<thead>
<tr>
<th>Cronbach’s Alpha</th>
<th>N of Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.74</td>
<td>6</td>
</tr>
</tbody>
</table>

From the results of 1 output in the table di above, namely Cronbach's Alpha of 6 items of 0.704. The output value of Cronbach alpha is in the interval 0.7 0.9, at a good level of internal consistency (Riadi, 2016).

The supporting instruments in this study were the Syllabus and Learning Implementation Plans (RPP), including the syllabus and lesson plans for the experimental and control classes. The syllabus and lesson plan for the experimental class used the Pop Up Book media, while the technical control class used traditional book media.

Data Analysis Techniques
The implementation of Pop Up Book media in the experimental class was observed with the learning implementation criteria. The criteria refer to five categories, namely excellent (86<percentage≤100), good (70<percentage≤86), sufficient (55<percentage≤70), less (40<percentage≤55), and very less (0<percentage≤ 40) (Arikunto, 2013). To describe the level of
reading skills used presentation analysis based on the Criteria Reference Assessment (PAK). With a maximum score of 24, the criteria used are as follows.

**Table 3. Determination of Criteria by Calculation of Percentages**

<table>
<thead>
<tr>
<th>Reading Skill Level Interval (RSLI %)</th>
<th>Score</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>86 &lt; RSLI ≤ 100</td>
<td>21 − 24</td>
<td>Very good</td>
</tr>
<tr>
<td>70 &lt; RSLI ≤ 86</td>
<td>17 − 20</td>
<td>Well</td>
</tr>
<tr>
<td>50 &lt; RSLI ≤ 70</td>
<td>13 − 16</td>
<td>Enough</td>
</tr>
<tr>
<td>44 &lt; RSLI ≤ 50</td>
<td>6 − 12</td>
<td>Not enough</td>
</tr>
</tbody>
</table>

The presentation of the data in this statistic is in the form of tables and histograms regarding the mean, median, mode, standard deviation, variance, range, minimum score, maximum score, and sum, and graphs so that they are easier to understand. Descriptive statistics in this study used descriptive statistics assisted by IMB SPSS 21.

The hypothesis test used in this study is to test the T-test, which is a two-mean independent test as follows.

\[
t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}}
\]

Difference test was conducted to prove that before being given treatment there was no significant difference between the experimental group and the control group students’ reading ability. Meanwhile, the post-test score difference test was used to test the effectiveness of the media.

**FINDING AND DISCUSSION**

**Finding**

The study results show that Pop Up Book media effectively improves the reading skills of second-grade elementary school students. The research data was obtained by using a performance test on six aspects of reading skills. The results of testing the validity of the item test instruments show that the six test items are valid and reliable. The reading skill tendency test results before being given treatment in control and experimental classes showed no significant difference (homogeneous). After the treatment, the average value of the reading skill post-test results between the experimental class and the control class showed a very significant difference. The average of the experimental class with the treatment given Pop Up Book media was higher than the control class. The implementation of learning in both classes was observed, and the results were carried out in very good categories.

**Description of Research Process**

The pre-test was conducted in two classes, namely class II A and II B. Learning reading skills using Pop Up Book media was carried out in class II B, and learning reading skills using storybook media was usually carried out in class II A. Then followed by a post-test. The post-test was carried out after the learning of reading skills was completed in both classes.

Description of Learning Implementation Observation Data

Efforts to ensure the learning process can occur according to the plan are carried out by observing the implementation of learning. Observations were carried out in control and experimental classes. The results of observing the implementation of learning are presented in Table 4.
Table 4. Results of Observation of the Implementation of Experimental and Control Classroom Learning

<table>
<thead>
<tr>
<th>Class</th>
<th>Presentation of Learning Implementation</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experiment</td>
<td>92.85%</td>
<td>Very good</td>
</tr>
<tr>
<td>Control</td>
<td>92.85%</td>
<td>Very good</td>
</tr>
</tbody>
</table>

Judging from the table data, it can be said that the implementation of the experimental and control class learning is included in the very good category.

Description of Pre-test Data

The results of the experimental class pre-test showed that the average value of reading skills was 63.96 with a standard deviation of 6.883. The lowest score is 54 with a frequency of 4 students. The highest score obtained is 75 with a frequency of 3 students. Meanwhile, the results of the control class pre-test showed that the average value of reading skills was 62.29 with a standard deviation of 6286. The lowest score is 50 with a frequency of 1 student. The highest score obtained is 75 with a frequency of 1 student. The description of the pre-test data is presented in Figures 2.

Table 5 shows that in the experimental class, only 28% had reading skills in the good category. As many as 72% of students in the experimental class reading skills were in the sufficient and poor categories. In the control class, reading skills with a good category 12.5%. The remaining 77.5% fall into the sufficient and poor categories. This shows that the reading skills of second-grade elementary school students, both in the experimental and control classes, are inadequate.

Test of Experimental Group and Control Group
In this experimental research design, the equivalence test is one of the control/control steps so that the results of experimentation are not affected by the initial ability. The analytical technique used is the sample independent t-test. The requirements in the t-test have been tested, the results are as follows.

**Normality Test**

The following is a summary of the results of the pre-test normality test in the experimental class and the control class.

<table>
<thead>
<tr>
<th></th>
<th>Kolmogorov-Smirnov*</th>
<th>Shapiro-Wilk</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Statistic</td>
<td>df</td>
</tr>
<tr>
<td>Nilai</td>
<td>Pre-test Eksperimen</td>
<td>.155</td>
</tr>
<tr>
<td>Nilai</td>
<td>Pre-test Kontrol</td>
<td>.205</td>
</tr>
</tbody>
</table>

a. Lilliefors Significance Correction

**Figure 3. Output Normality of Pre-test Score**

Figure 3 shows the initial ability of the experimental class reading skills with a value of Sig. 0.056 is greater than 0.05. While the results of the control class pre-test with a value of Sig. 0.067 is greater than 0.05. So, the experimental and control classes’ pre-test scores are normally distributed.

**Homogeneity Test**

The following is a summary of the results of the homogeneity pre-test in the experimental class and the control class.

<table>
<thead>
<tr>
<th></th>
<th>Levene Statistic</th>
<th>df1</th>
<th>df2</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nilai</td>
<td>.472</td>
<td>1</td>
<td>47</td>
<td>.496</td>
</tr>
</tbody>
</table>

**Figure 4. Output Homogeneity Pre-test**

Figure 4 shows the homogeneity test results obtained from the Levene Statistical value obtained 0.472 with Sig. 0.496 is greater than 0.05. Thus it can be concluded that the two classes are homogeneous. These conditions meet the inferential statistical assumption test so that the Quasi-Experimental process can be continued in the experimental and control classes.

**Test the Equation of Two Pre-test Means**

The following is a summary of the results of the two pre-test averages in the experimental class and the control class.

<table>
<thead>
<tr>
<th></th>
<th>Levene’s Test for Equality of Variances</th>
<th>t-test for Equality of Means</th>
<th>95% Confidence Interval of the Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F</td>
<td>Sig.</td>
<td>df</td>
</tr>
<tr>
<td>Nilai</td>
<td>Equal variances assumed</td>
<td>.472</td>
<td>.496</td>
</tr>
<tr>
<td>Nilai</td>
<td>Equal variances not assumed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Figure 5. The results of the equation test of the two mean Pre-Test**
Based on Figure 5, it can be seen that the t value is 0.887 on Sig. 0.380 so that H0 is accepted, and H1 is rejected. Thus, it can be concluded that there is no difference between the experimental class and the control class on the pre-test of reading skills. In other words, the two groups are equal.

**Description of Post-test Data**

The post-test results of the experimental class showed that the average value of reading skills was 81.56 with a standard deviation of 9.083. The lowest score is 63 with a frequency of 1 student. The highest score obtained is 100 with a frequency of 1 student. Meanwhile, the results of the control class post-test showed that the average value of reading skills was 65.38 with a standard of 6351. The lowest score is 54 with a frequency of 1 student. The highest score obtained is 75 with a frequency of 3 students. The summary of the results of the descriptive statistical tests and the histogram of the pre-test scores are presented in Figures 6.

**Figure 6. Description of Experimental Class Post-test Data**

An overview of the final reading skills of research subjects is presented in the following table.

<table>
<thead>
<tr>
<th>Score</th>
<th>Category</th>
<th>Frequency Experiment</th>
<th>Frequency Control</th>
<th>Percentage</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>86&lt;RSLI≤100</td>
<td>Very good</td>
<td>8</td>
<td>0</td>
<td>32%</td>
<td>0%</td>
</tr>
<tr>
<td>70&lt;RSLI≤86</td>
<td>Well</td>
<td>14</td>
<td>8</td>
<td>56%</td>
<td>33.5%</td>
</tr>
<tr>
<td>50&lt;RSLI≤70</td>
<td>Enough</td>
<td>3</td>
<td>15</td>
<td>12%</td>
<td>62.5%</td>
</tr>
<tr>
<td>44&lt;RSLI≤50</td>
<td>Not enough</td>
<td>0</td>
<td>1</td>
<td>0%</td>
<td>4%</td>
</tr>
</tbody>
</table>

Amount | 25 | 24 | 100% | 100%

Table 6 shows a description of the final reading skills. It was found that in the experimental class for the good and very good categories, it was 88%. A significant increase (up to 60%) compared to students' reading skills during the pretest. The categories are quite good and not good, only 12%, meanwhile, in the control class for the good category of 33.5%. Up 21% compared to students' reading skills during the pretest. When the post-test category is very good, the control class is still 0%. The categories are quite good and not good at 66.6%. This fact shows that classes whose learning uses Pop Up Books improve students' reading skills higher.

**Pop Up Book Media Effectiveness**

To test the difference in reading ability based on the media used, the independent sample t-test was carried out. The requirements in the t-test have been tested, the results are as follows.
Normality test

The following is a summary of the results of the post-test score normality test in the experimental class and the control class.

<table>
<thead>
<tr>
<th>Kelas</th>
<th>Kolmogorov-Smirnov²</th>
<th>Shapiro-Wilk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post-test Ekperimen</td>
<td>.163</td>
<td>.965</td>
</tr>
<tr>
<td>Post-test Kontrol</td>
<td>.169</td>
<td>.020</td>
</tr>
</tbody>
</table>

Figure 7. Post-test Score Normality Output

It can be seen that the final ability of the experimental class reading skills with a value of Sig. 0.521 is greater than 0.05 so Ho is accepted, which means the experimental class is normally distributed. While the results of the post-test control class with a value of Sig. 0.059 is greater than 0.05 then Ho is accepted so that the control class is normally distributed. So, it can be concluded that the population of post-test scores for the experimental class and the control class is normally distributed.

Hypothesis testing

The proposed hypothesis is as follows.

H₀: There is no difference in students' reading skills based on the learning media used.
H₁: There are differences in students' reading skills based on the media learning used.

The following are the results of the two post-test averages in the experimental class and the control class.

Figure 8. Results of the Equation of Two Post-test Means

Based on the picture above, it can be seen that the value of t is obtained at 7.252 in sig. 0.000, so Ho is rejected. Thus, it can be concluded that there is a very significant difference in reading skills between the experimental class and the control class Pop Up Book was effectively applied to improve reading skills in learning to read in the experimental class compared to the usual storybook media which was applied in the control class. This can be seen from the post-test average value of reading skills for class II B as the experimental class which is 81.56 which is higher than class II A as the control class which is 65.38.

Discussion

The discussion section discusses the reading skills learning process, the level of reading skills of grade II elementary school students, and Pop Up Book media effectiveness. These three
parts are part of the main research findings, including the learning process, finding the students' reading ability level, and testing Pop Up Book learning media. Furthermore, each section refers to related research to confirm the findings of this study.

Reading Skills Learning Process

Learning is carried out in three main stages as expressed by Zulela (2012) the introduction, core, and closing. The teacher opens the lesson with greetings and invites students to pray to start the lesson. The teacher checks student attendance, news, and preparation for carrying out the learning process. The teacher recalls the previous lesson. The teacher invites students to mention what will be studied. The teacher conveys the learning objectives, indicators, and competencies to be achieved in learning. The material is delivered by the teacher in a clear, logical, and systematic manner. Each student has the opportunity to ask questions about the material that has been explained. Teachers use adequate learning resources. To determine the level of students' reading skills, the teacher asked students to read individually, so that each student had the opportunity to demonstrate their reading skills. At the end of the lesson, the teacher together with the students conclude the learning materials that have been completed, identifies the benefits of the material studied and identifies the positive values obtained from the learning materials. The teacher also conveys the next lesson plan. The thing that was missed by the teacher in learning in both classes, both the experimental class and the control class, was to explain the minimum competencies that students had to achieve.

The activity of reading story books in learning is used to determine the level of students' reading skills. According to Anggraeni & Alpian (2020) regarding the assessment of reading learning, aspects of assessing reading skills in this study include writing voice skills, pronunciation reasonableness, intonation fairness, fluency, voice clarity, and understanding the meaning of words. The first aspect that is observed is the accuracy of voicing deaf san. Regarding this aspect, the students saw that they were very precise, quite precise, less precise, or inappropriate in reading words and sentences. The second aspect that is observed is the reasonableness of pronunciation. Regarding this aspect, it can be seen that students' pronunciation when reading words and sentences is very clear/loud, quite clear, not clear/vague, or not clear/inaudible. The third aspect that is observed is intonation. Regarding this aspect, it can be seen that the intonation of students when reading words and sentences is very clear/loud, quite clear, not clear/vague, or not clear/inaudible. The fourth aspect that is observed is fluency. Regarding this aspect, it was seen that students were very fluent, quite fluent, not fluent, or not fluent in reading words and sentences. The fifth aspect that is observed is the clarity of the voice. Regarding this aspect, it was seen that students read words and sentences very clearly/aloud, quite clearly, not clearly/vaguely, or not clearly/inaudibly sentence. The sixth aspect that is observed is word understanding. Regarding this aspect, it was seen by students that they were very precise, quite precise, less precise, or inappropriate in understanding the words and sentences they read.

Level of Reading Skills of Grade II Elementary School Students

From the results of the study, it was concluded that the reading skills of the second-grade elementary school students on average were in the sufficient category. The problem of reading skills is at the level of practical teaching in the classroom. Therefore, to overcome the problem of low reading skills of students, the most appropriate way to be taken is to carry out guidance on teaching reading in schools. As a teaching manager, in addition to having to understand the reading theory, the teacher must be able to teach reading in an interesting, stimulating, and varied way. In short, various efforts of teachers to achieve improvement in students' reading skills must be developed. From the results of this study, it has been proven that the use of appropriate reading learning media can improve the reading skills of second-grade elementary school students. This finding reinforces the results of research from Dewi et al., (2022); Laksmi et al., (2021); Nurani, RZ, Nugraha, F., & Mahendra, (2021); Young, (2019) that students' reading skills can be improved by using media in the learning process. From the results of the pretest reading skills in the experimental class, it was obtained that the average reading skills of students were in the sufficient category. The post-test results showed as many as 88% of students had reading skills in
the good and very good categories. The average pre-test score of 63.96 increased significantly in the post-test score to 81.6. Media Pop Up Book has proven to be effectively used as a medium for learning to read to improve the reading skills of grade II students. Media Pop Up Book is appropriate to be used as a medium for learning to read in lower grades.

**Pop Up Book Media Effectiveness**

The results of the analysis have proven that there are differences in reading skills between the experimental class and the control class on the post-test of reading skills. The experimental class students' reading skills were better than the control class students' reading skills. This means that the use of Pop Up Books is effective for improving reading skills in third-grade elementary school students.

To gain confidence that the increase in reading skills is really a result of the use of Pop Up Book media in this experiment, control or control measures were carried out on a number of things or variables, namely (a) Carrying out experiments at the same school location, so that the independent variables were environment can be controlled, (b) Carry out experiments on the same teacher, so that the independent variables in the form of subjectivity in the form of individual differences of the treatment giver can be controlled, (c) Provide a reading ability test before the treatment is given, so that the experimental results are not affected by initial ability, (d) Use the same reading material on reading learning class using Pop Up Book media and reading class using ordinary storybook media so that the experimental results are not contaminated by treatment material factors, (e) Providing treatment with a time span that is not too long but only 3 times so that the experimental results not contaminated by the maturity factor. (f) Research subjects are not informed that they are being researched subjects/objects so that research subjects do not act unnaturally.

The results of this study support the theory that has been conveyed by several experts that learning media is a component that has a very important function in learning activities (Alim et al., 2019; et al., 2019). Suprihatiningsum said that learning media has six main functions, namely (1) the function of attention, which is something that can attract students' attention by displaying something interesting from the media, so that it can attract students' attention, (2) the function of motivation, which is to raise awareness to students to more active or diligent in learning, (3) Affective function, fostering student awareness to be better in attitude and able to control emotions in learning activities, (4) Compensatory function, helping weak students in attracting and understanding lessons presented in text or images, making it easier for students to understand learning, (5) Psychomotor function, helping students to carry out motoric activities well, not only cognitively students who are running or developing but all can develop well, (6) Evaluation function, able to assess students' abilities in learning. understand learning through the use of these media so that using media can help teachers in conducting the assessment process (Suprihatinungrum, 2016). With a slightly different formulation, Wati (2016) suggests that learning media has many functions including (1) Attention, which functions to attract and direct students' attention to concentrate on learning, and (2) Affective, which serves to provide student comfort in learning by evoking students' emotions such as information. related to social problems or related to student enjoyment, (3) Cognitive, which functions to facilitate student achievement in understanding and remembering the messages contained in learning, (4) Compensatory, namely media that function for students to easily understand and get special information for students who are slow or weak in understanding the material presented through the text. If the teacher uses the media optimally, students can certainly absorb the message conveyed through the media (Daryanto & Darmiatun, 2013; Halimatussakdiah & Sumarwati, 2021; Zubairu, 2021).

Sudjana said that choosing the media must be by the needs and according to the level of thinking, so that students can capture the meaning contained in the media properly (Sudjana, 2009). Kristina said reading material is the most important aspect of learning to read because it will please children if the presentation is accompanied by interesting pictures (Kristina, 2019). Pop Up Book media can make the learning and teaching process run in a happy atmosphere and Pop Up Book media can indirectly attract students' attention to reading. So that reading skills can
improve. The use of Pop Up Book media will make students interested in reading. Indirectly students develop reading skills, so they can read well.

The results of this study also support the results of previous studies, both those conducted by Yuli Ratnasari, Karlimah, Elan, Siti Nur Jannah, and Desi Sukmawati, Isah Cahyani, who have proven that the use of Pop Up Book media is effective in increasing students' understanding of the basic concepts of fractions in Mathematics learning in grade III SD is effective for improving descriptive writing skills in grade IV (Ratnasari et al., 2018; Sukmawati & Cahyani, 2016b).

The results of the research on improving reading skills are also the same as the results of research conducted by Desi Sukmawati, and Isah Cahyani, that the use of any media the teacher must be able to optimize properly so that the media can support learning so that students can understand the learning delivered optimally (Sukmawati & Cahyani, 2016a).

Thus, from the results of this study, which are also supported by the results of other previous studies, it can be concluded that the use of Pop Up Book media can make the learning process run in a happy atmosphere. The use of interesting media will make students interested in reading. Indirectly students develop reading skills, so they can read well.

CONCLUSION

Based on the results of the research and discussion in the previous chapter, it can be concluded that the use of Pop Up Book media is effective for improving the reading skills in learning to read in second-grade elementary school students. This is evidenced by the results of hypothesis testing by using an independent sample test on students' reading. This means that there is an effect of Pop Up Book media on the reading skills of the experimental class compared to ordinary book media which is applied in the control class. These findings can be used as a basis by primary education practitioners as a basis for implementing learning media in the classroom. In addition, education policymakers can adopt regulations, especially the application of instructional media in schools. Opportunities for further research can focus on combining learning models and Pop Up Book learning media for elementary school students.

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