DEVELOPING A LEARNING MANAGEMENT MODEL TO ENHANCE THE ANALYTICAL ABILITY OF GRADE 2 STUDENTS IN THE HISTORY OF WHO I AM USING 5W1H TECHNIQUES

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ABSTRACT

This study aims to develop a learning management model to enhance the analytical ability of students in elementary school 1) to develop a learning management model to enhance the analytical ability of students in elementary school, history of who I am with 5W1H 2) to try experiment with problem solving techniques and help information. The information that led to the setting of the problem was the use of question 5W1H 3) Comparison of analytical thinking ability of Grade 2 students before and after learning. The example group included 106 students in the second grade of the academic year 2565 at the Demonstration School of Suan Sunandha Rajabhat University. Research tools included historical learning management plans, academic achievement tests and analytical tests. The statistics used were percentage, mean, and standard deviation. The Kolmogorov-Smirnov test found that 1) learning management through the historical methods of Grade 2 students after school was statistically significantly higher than pre-learning at level .05. 2) Historical methodology management of Grade 2 students after learning was not higher than 70% at the statistical significance level .05. 3) The analytical ability of Grade 2 students after learning was statistically significantly higher at level .05.

The study found that the mean pre-school score was 9.94 and the standard deviation was 1.55. while after learning had the standard deviation was 15.48 and the standard deviation was 1.35. The average post-school score was higher when comparing the achievements of learning unit 1, chapter 2, who I am and thinking ability. Analysis of Grade 2 before and after history learning management combined with 5W1H techniques found that elementary school students 2 achievements of historical learning about who I am by managing historical learning with graphic layouts after learning were statistically significantly higher than pre- learning at .05 and comparing the achievements of Grade 2 after managing historical learning with 5W1H techniques with 70% of the criteria, this finding found that second grade, achievements in history in Who am I by conducting historical learning combined with 5W1H techniques post-learning of students exceeded the 70% determined criteria at a statistical significance level of .05.

Keywords: Learning management model with 5W1H techniques, student analytical ability

INTRODUCTION

The analytical ability was a basic human skill that promoted success in work and life. Humans required the analytical ability to select for received good information by itself. Analytical ability was the pursuit of knowledge and created new experiences. It was the best way to solve human problems. The analytical ability was a skill that could be learned, practiced, practiced by asking questions, identified problems, stimulated thinking to find answers. Analytical was a kind of thinking in which could be classified and distinguish, stories and events to find information and divided into sub-sections according to the principle to obtain accurate and realistic conclusions (Sukhon Sinthapanon et al., 2008).

In addition, the role of the instructor has changed in teaching and learning in the 21st century. The instructors have to manage the environment, teaching media, and facilitate learners to learn. This environment was called Learning Community which a group of learners and instructors were motivated by the same ideas and requirement and joint carry out activities. Learning Community provided knowledge, desired skills and attitudes. Community activities were used for information sharing and deep learning about a particular subject (Benjawan Srimarut Chitrachanakul and Chatchayapha Khamphatham, 2020).

Therefore, the researcher was interested in developing a learning management model to improve the analytical ability of Grade 2 students in history about who I am with the 5W1H technique. This study aimed to develop a learning management model to t improve analytical ability of Grade 2 students in history on Who Am I with the 5W1H technique and try out 5W1H questions techniques to analyze problem situations and provide information leading scope of the problem, and then compared the analytical abilities of Grade 2 students before and after learning.

Research question

Whether History teachers can develop a learning management model to enhance their ability of analytical ability of students in Grade 2 in history subject on Who am I with the 5W1H technique? How?

Objectives of the research

1. To develop a learning management model to enhance the analytical ability of students in elementary school, history of who I am with 5W1H
2. Try experiment with problem solving techniques and help information. The information that led to the setting of the problem was the use of question 5W1H
3. Comparison of analytical ability of Grade 2 students before and after learning

Research methodology

This research used this research protocol as a preliminary experimental research which the researcher conducted an experiment using a research plan was one group pretest-post-test design (Luenam, 2018) using a research plan as shown in Figure 1.
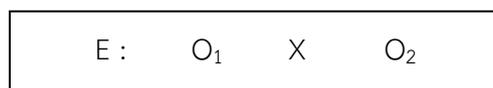
$$E: \quad O_1 \quad X \quad O_2$$

Figure 1 Research plan

Symbols used in research
E   represents the experimental group
O_1 represents pre-test measurement
X   represents teaching with a historical method along with graphical diagrams
O_2 represents post-test measurement

1. Target group

The population used in this research was 106 Grade 2 students of the Demonstration School of Suan Sunandha Rajabhat University

The sample group used in this research consists of 35 students at Grade 2 selecting by Cluster or Area random sampling.

2. Research tools

The research tool was a created questionnaire by the researcher to study the participation in the development of a learning management model to enhance the ability to analytical ability of students in Grade 2 of history who I am with the 5W1H technique, divided into 4 parts, which has the steps to create and develop the machine as follows:

1) Creating a questionnaire to define the scope of the questionnaire content consisted of 4 parts:

Part 1 Basic Information of Respondents

Part 2 Opinion questionnaire on the development of a learning management model to enhance analytical ability of students in Grade 2 of history who I am with the 5W1H technique.

Part 3 Conditions of problems/obstacles encountered from learning management know to enhance the ability to analytical ability.

Part 4 Other issues

2) Set the topics

3) The questionnaire was verified to 3 experts to examine the appropriateness of the components of the learning management plan. The result found that the appropriateness of the learning management approach had an average of 4.90 meaning the most appropriate.

3. Data collection

The development of a learning management model enhanced the ability of analytical ability of students in grade 2 of history on who I am with the 5W1H technique.

The researcher has collected data following.

1) The researcher tested before learning with a history learning achievement test of learning unit 1 chapter 2 Who Am I of Grade 2 students at the Demonstration School of Suan Sunandha Rajabhat University amount 35 people students.

2) The researcher performed an experimental teaching with a history learning management plan in learning unit 1 chapter 2 Who Am I with 35 students of Grade 2 at the Demonstration School of Suan Sunandha Rajabhat University by the 5W1H technique.

3) The researcher tested after learning with a history learning achievement test of learning unit 1 chapter 2 Who Am I with Grade 2 students and the analytical ability test which was the original test.

4. Data analysis

The researcher analyzed the data using a statistical program as follows:

1. Comparison of learning achievements on unit 1, chapter 2, Who Am I, and the analytical ability of Grade 2 students before and after learning management using the historical method along with the 5W1H technique was investigated by using percentage, mean ($\bar{x}$) and standard deviation (S.D.).

2. Compare learning achievements on unit 1, chapter 2, Who Am I, and the analytical ability of Grade 2 students before and after history learning management along with the 5W1H technique was examined by the students' normal distribution using Kolmogorov-Smirnov test found that:

2.1 The pre-learning achievement score had a Sig value of .200 and post-learning had a value of .200 which was greater than the statistical significance at the .05 level. This result indicated that the main hypothesis was accepted. The data was therefore normally distributed. Thus, the t-test for dependent was used.

2.2 The analytical ability score before learning had a Sig value of .200, and post-learning was .071 which was greater than the statistical significance value at the .05 level. This result indicated that the main hypothesis was accepted. The data is therefore normally distributed. Thus, the t-test for dependent was used.

3. Comparison of learning achievements on unit 1, chapter 2, Who Am I, and the analytical ability of Grade 2 students after the historical learning management method combined with the 5W1H technique with the criterion of 70 % was examined by using t-test for one sample.

Research results

1. This research was performed by comparing the results of learning analytical ability of Grade 2 students before and after learning management using the historical method along with the 5W1H technique.

Table 1 Comparison of the results of learning analytical ability of Grade 2 students before and after learning management using the historical method along with the 5W1H technique.

Learning achievement	n	$\bar{x}$	S.D.	t	p
Pre-learning	35	9.94	1.55		
Post-learning	35	15.48	1.35	15.899	.000*

* Statistical significance level .05

From Table 1, the result showed that Grade 2 students had historical achievements on who am I by managing learning with a historical method in along with a graphical layout after learning was higher than pre- learning at statistical significance level at .05.

2. Comparison of the learning achievements of Grade 2 students after learning management using the historical method along with the 5W1H technique with the criteria of 70%.

Table 2 Comparison of the learning achievements of Grade 2 students after learning management using the historical method along with the 5W1H technique with the criteria of 70%.

	n	Full score	Score of 70%	$\bar{x}$	S.D.	t	p
Post-learning	35	20	14	15.49	1.35	67.441	.000

* Statistical significance level .05

From Table 2, the result showed that Grade 2 students had historical achievements on Who am I of learning management by using the historical method along with the 5W1H technique after learning exceeded the threshold of 70% at the statistical significance level of .05.

DISCUSSION

The development of learning management model to enhance the analytical ability of Grade 2 students in history subject on who I am with the 5W1H technique was a learning management model that the content included providing many ways to find out about yourself and your family by asking from family members and finding from different evidence such as photographs, birth certificates, house registrations leading sequence various stories of yourself and family. It also facilitate remember of important stories. All family has own memorable story.

From the study of learning achievement, unit 1, chapter 2, who am I and the analytical ability of Grade 2 students before and after learning management using the historical method along with the 5W1H technique was found that the pre-learning mean was 9.94 and the standard deviation was 1.55, while the mean of post- learning was 15.48 and the standard deviation was 1.35. From the mean, it was found that students had higher scores after learning than pre-learning. The achievement comparison was performed in Unit 1, Chapter 2, Who Am I, and the analytical ability of Grade 2 students before and after learning by managing learning with a historical method along with a graphical layout was found that post-learning was higher than pre-learning with statistically significant at the .05 level. This finding in agreement with the research of Patcharin Rodsin (2020) that developed a learning management model for high school Thai teachers to enhance reading and analytical ability using metacognitive strategies combined with coaching. Their result found that scores of knowledge and understanding of learning management of Thai teachers after the learning experiment was higher than before the experiment. The pre-test and post-test scores were significantly different at the .05 level when compared with the t-test. The comparing of learning achievement of Grade 2 students after learning management with the historical method combined with the 5W1H technique with the criteria of 70% demonstrated that Grade 2 students had historical learning achievement on Who am I by using the historical method combined with the 5W1H technique after learning was higher than the 70% criterion at the statistical significance level of .05. This finding also related

to the research of Sittipon (2011) that to develop a learning management model. Their result was found that the students' analytical ability score after learning was 76.49%, which was higher than the determined criteria of 70%, and the students were satisfied with learning using the learning management model emphasizing analytical ability in the overall science learning subject group was at the highest level. This conformed with the study of Poolklai, S. (2021) Study Learning Style through Cloud Computing Technology in General Education Courses at Suan Sunandha Rajabhat. Research results found that the learning model through the Cloud Way System in the general education course at Suan Sunandha Rajabhat University consists of three components: 1) Situation analysis, 2) Online teaching activities on Google App for Education, 3) and Evaluation and revision. Results: The teaching and learning efficiency test E1/E2 is 82.87/83.75. It meets the criteria set. Last, the performance test result of students after studying is higher than before studying. This shows that students have progressed in their studies after using the Cloud Way learning model in the general education course at Suan Sunandha Rajabhat University.

Recommendations

1. Teachers have to play a role in asking questions during teaching to encourage students to be analytical ability and not only inform knowledge to learners.

2. There should be research to compare between learning management styles to enhance the ability of analytical ability of students in Grade 2 of history about who I am with the 5W1H technique and other formats to further develop teaching and learning.

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