

DEVELOPMENT OF LEARNING ACHIEVEMENT IN ART SUBJECTS USING THE 4MAT SYSTEM LEARNING CYCLE THINKING PROCESS GRADE 6 STUDENTS DEMONSTRATION SCHOOL OF SUAN SUNANDHA RAJABHAT UNIVERSITY

Pawinee Sorawech

*Demonstration School of Suan Sunandha Rajabhat University,
SuanSunandhaRajabhat University, Bangkok, Thailand,
Pawinee.so@ssru.ac.th*

ABSTRACT

The objectives of this research were 1) study the use of the 4MAT System learning cycle thinking process and 2) development of learning achievement in art subjects using the 4MAT System learning cycle thinking process. The sample consisted of 66 students in grade 6 students, Demonstration School of Suan Sunandha Rajabhat University, Academic Year 2021, with a total of 66 students. The process of thinking according to the 4MAT learning cycle consisted of 8 steps according to the assessment criteria in 5 aspects of art using 9 worksheets. in the art of learning art The average of the subject lessons Draw a picture of what you like from the assessment according to the five criteria, with a level of 91.33% in the most evaluation criteria. and the average of the subject lessons draw a picture of Thai food at the level of 80.86, very high evaluation criteria. and the average in all aspects was at a high level, which was 84.94%. The students expressed their opinions on the development of learning skills in art subjects. Commented that before studying, students had skills and ability to draw and paint. The moderate level, 65.60 % after studying, the students had skills and ability to draw and paint. At a high level, 52.50%, followed by an opinion. The theory of color and the composition of art. At the moderate level, 64.40% and expressed their opinions on the questions. They were happy in studying art. At the highest level, 41.00 %

Keywords: learning achievement,4MAT System, integrated teaching

INTRODUCTION

The situation of the Covid-19 epidemic in the academic year 2021, teaching and learning has been conducted using communication technology, the google classroom program system is an online teaching technology. Students and teachers take part in studying together according to the normal class schedule including the assignment of study and submission through the google program system. The development of teaching and learning to develop using the learning process. Educational management focuses on providing students with skills necessary for life and in line with the needs of society in the future world, advancement, modernity, In teaching and learning management organizing the teaching and learning process for developing

students to be global citizens development of students according to the goals of the basic education curriculum organizing the learning process. Teachers and students may learn at the same time from teaching materials and various types of sources. The curriculum of basic education management in 2008, the art learning subject group aims to develop learners to gain knowledge and understanding. Skilled in artistic methods develop students to have creative initiatives. Aesthetics, value, which affects the quality of human life. Art helps develop learners physically, mentally, intellectually, emotionally and socially, allowing students to be creative. Artistic imagination art learning activities students create beautiful works of art and can explain their work effectively. The development of teaching and learning for development by using the learning process. The teaching model of the thinking process based on the 4MAT System learning cycle is a learning management theory that focuses on the learner. According to the aptitude of the learners and to promote the use of both hemispheres of the brain which makes the learners effective in learning to their full potential by emphasizing on the learners to learn from real practice. And aims to make students become smart good and happy people here are 4 types of learning for learners: 1) Learners who are good at learning by imagination. 2) Students who are good at analyzing, 3) Students who are good at using common sense, and 4) Students who are good at recognizing concrete experiences. Ros Srimas. (2020). A study of academic achievement and creativity in art subjects of Prathom Suksa 4 students the group that received 4 MAT learning management found that the group that received 4 MAT learning had a higher mean score than the group that received normal learning. Learning ability and creativity in art subjects of students as a result, students changed their behavior according to the instructional objectives correctly and appropriately. The basic core education curriculum, 2008, subject group for learning art, strand 1, visual arts, by using art learning skills exercise documents. Integrated teaching style in art subjects Grade 6, semester 1, academic year 2021, has the following learning units: Unit 1: Magical Body, Unit 2: Energy and Life, and Unit 3: Pride in Thailand as follows: Worksheet 1) Drawing a future home 2) drawing Thai clothes 3) drawing Thai food 4) drawing Thai houses 5) drawing temples in Thailand 6) drawing Thai people in rural areas 7) drawing my school 8) drawing favorite things and 9) drawing my friend picture. The basic core education curriculum, 2008, subject group learning art, strand 1 visual arts, having knowledge and understanding of the elements of art. create and present use of appropriate equipment, techniques, methods, analysis, criticism, value of works of visual art Appreciate artworks that are cultural heritage. The form of the learning process 4MAT System is a learning management theory that focuses on learners. according to the aptitude of the learners and to promote the use of both hemispheres of the brain which makes the learners effective in learning to their full potential By emphasizing on the learners to learn from real practice. and aims to make students become smart Nice people and happy information management process. The learning characteristics of learners can be divided into 4 types: 1) Learners who are good at learning by imagination. 2) students who are good at analyzing, 3) students who are good at using common sense, and 4) students who are good at recognizing concrete experiences and leading to. This is an interesting and suitable teaching method for students. The application is extremely. The teaching model of the thinking process according

to the learning cycle. 4MAT System learning cycle to develop art learning skills 8-step process as follows:

Step 1: Build experience teachers create experiences by stimulating or motivating. Have learners relate their perceived experiences to their own.

Step 2: Analyze experiences teachers have learners reflect on experiences and examine what they have learned.

Step 3 Integrate observations into concepts. The teacher gives facts. and organize activities for students to create concepts.

Step 4: Develop a concept teachers give learners information or facts based on theories or concepts. For learners to analyze and reflect on their experiences.

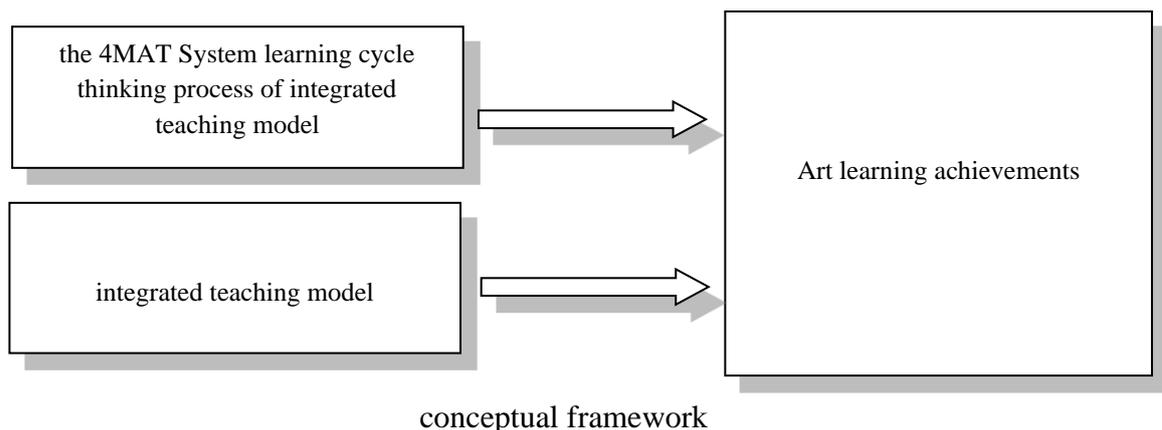
Step 5: Implement and refine your own ideas. Learners try to follow what they have learned. Through the senses to develop concepts and skills.

Step 6 Create a piece according to your aptitude/interest. Learners improve what they practice with methods and integrate them into their own knowledge.

Step 7 Analyze for application Learners analyze the perceived chisels. Then apply or modify what you have learned for the benefit of yourself and others.

Step 8: Share your knowledge with others. Learners share what they have learned with others.

Therefore, in order to develop students to meet the goals of the curriculum, teachers have adopted the method. Development of learning achievement in art subjects using the 4MAT System learning cycle thinking process grade 6 students Demonstration School of Suan Sunandha Rajabhat University. 1) Study the use of the 4MAT System learning cycle thinking process of the integrated teaching model. and 2) Develop learning achievements in art subjects by using the 4MAT System learning cycle thinking process of integrated teaching model grade 6 students.



METHODOLOGY

1. From the quality of the works obtained from art certificate documents Grade 6, semester 1, Academic Year 2021, total of 9 worksheets according to the artistic evaluation criteria are as follows: 1) Accuracy 2) Consistency 3) Style Imagination 4) Transfer of work and 5) Thought create

2. Implement teaching according to the teaching model of the 4MAT System learning cycle thinking process of the integrated teaching model.

3. Have students answer the research questionnaire. on the development of learning skills in art subjects Online teaching model with google classroom program for grade 6 students in academic year 1/2021 The population designated for this study was Demonstration School of Suan Sunandha Rajabhat University students , obtained by purposive sampling. assess worksheets according to the criteria for art assessment, learning art subjects and distributing research questionnaires The researcher conducted an online questionnaire. with relevant students Once the questionnaire data has been collected

The researcher used a group of samples related to art work documents. grade 6, semester 1, academic year 2021, assess worksheets according to the criteria for art assessment, learning art subjects and distributing research questionnaires The researcher conducted an online questionnaire. with relevant students Once the questionnaire data has been collected the researcher used the data obtained for statistical analysis and used the data to summarize and discuss. to achieve the following research objectives as follows:

- 1) Plan and organize learning activities according to the visual arts learning management plan.
- 2) Perform art learning skills activities and answer questionnaires.
- 3) Collect the data obtained from the experiment with the practice sample.
- 4) Analyze the data.
- 5) Summarize the research results.

RESULTS

Development of learning achievement in art subjects by using the 4MAT System learning cycle thinking process of integrated teaching model, can be summarized as divided according to the art assessment criteria. Through the process of using 9 applications, it was found that the assessment of art learning in art subjects with the following averages.

Table 1 Number of grade 6 students in the academic year 2021

level	man	female	Total
P. 6/1	23	10	33
P. 6/2	24	9	33
Total	47	19	66

Table 1, The number of students in grade 6, in the academic year 2021, there are 33 students in grade 6/1 and 33 students in grade 6/2, totaling 66 students.

Table 2 Assessment according to the criteria for art assessment, art learning by using the 4MAT System learning cycle

Worksheet	Art Evaluation Criteria Average (%)					average (\bar{X})
	Accuracy	consistency	Imagination style	Portfolio	creativity	
1) Paint a picture of the future house.	87.70	85.80	92.03	88.15	94.76	89.69
2) Draw a picture of a Thai costume.	86.00	76.50	83.46	81.03	86.30	82.65
3) Draw Thai food	75.56	78.27	88.36	78.56	83.56	80.86
4) Draw a picture of a Thai house	78.42	76.54	86.62	86.34	86.89	82.96
5) Draw a picture of a temple in Thailand.	86.07	86.50	83.46	81.03	86.70	84.75
6) Draw a picture of Thai people in rural areas.	75.16	82.54	88.72	78.56	83.22	81.64
7) Draw a picture of my school.	85.56	86.44	87.00	80.43	91.58	86.20
8) Draw a picture of what you like.	86.44	84.32	95.94	93.44	96.55	91.33
9) Draw a picture of my friend.	84.00	86.60	83.55	81.03	86.76	84.38
Total (\bar{X})	82.76	82.61	87.68	83.18	88.48	84.94

Table 2, it was found that the assessment of art learning in art subjects by using the 4MAT System learning cycle thinking process. Drawing a picture of what you like was evaluated according to the criteria 1) Accuracy 2) Consistency 3) Style Imagination 4) Work transfer and 5) Creativity with a level of 91.33%, which is the highest evaluation criteria. And the average of the lessons Draw a picture of Thai food at the level of 80.86%, the assessment criterion is high. and the mean in all aspects was at a high level, 84.94%

CONCLUSION AND FUTURE WORK

Development of learning achievement in art subjects by using the 4MAT System learning cycle thinking process of integrated teaching model grade 6 students, Demonstration School of Suan Sunandha Rajabhat University, 66 people, semester 1, academic year 2021, integrated teaching style. The thinking process according to the 4MAT learning cycle consists of 8 steps. Used to create the criteria for art evaluation. It can be concluded that it is divided according to the criteria for artistic evaluation as follows: 1) Accuracy 2). Consistency 3). Style, imagination 4) Transfer of works and 5.) Creativity Through the process of using 9 applications, it was found that the assessment of art learning in art subjects by using the 4MAT System learning cycle thinking process. Drawing a picture of what you like was evaluated according to the criteria 1) Accuracy 2) Consistency 3) Style Imagination 4) Work transfer and 5) Creativity with a level of 91.33, which is the highest evaluation criteria. and the average of the lessons Draw a picture of Thai food at the level of 80.86, the assessment criterion is high. and the mean in all aspects was at a high level. Show the opinions of students. Grade 6, academic year 1/2021. Most students commented that before studying art in grade 6, students had the ability to draw and paint. In the middle level, 65.60 %. After studying art in grade 6, students have skills in drawing and painting. was at a high level, 52.50 %, followed by students who could express their opinions about color theory and elements of art at the moderate level, 64.40 %, students have knowledge of art materials such as paints, paper, brushes, pens, pencils, erasers, etc., at the highest level, 13.10 %, and most students express their opinions on the questions. Students are happy in learning. art subject was at the highest level, 41.00 %t, consistent with Thanyaros Srimas (2020). and creativity in art subjects of Prathom Suksa 4 students. The 4 MAT learning management group had a higher mean score than the normal learning management group. The 4 MAT can promote learning ability and creativity in art subjects. of students Primary 4, as a result, students changed their behavior according to the teaching and learning objectives correctly and appropriately. The development of creativity has been used in learning that is useful in helping to develop learning more easily. Use techniques to create work effectively. Has increased academic achievement and with Patra Untinakorn (2021) has studied the development of an integrated learning management model to enhance skills in the 21st century for elementary school students of Demonstration School of Suan Sunandha Rajabhat University. The development of an integrated learning management model 2) learning achievement of integrated learning management was found that after learning was significantly higher than before learning by .05 and 3) satisfaction towards integrated learning management Integration found that the overall average was at the highest level.

SUGGESTION

Based on this research, the researcher has suggested that the following research will be beneficial. 1) Students are still unable to speak, comment, write and explain about color theory and art elements. efficiently, 2) The teacher explains the work so that the students can apply the knowledge in their daily lives and preserve Thai culture. 3) Can be used as a model for learning other subjects recommendations for further research.

ACKNOWLEDGEMENTS

This research owes its success to the contributions of many people. Most appreciations go to those experts for their advice and also to Suan Sunandha Rajabhat University for their valuing this research and funding support. Special thanks also go to the director and the teachers at Demonstration School of Suan Sunandha Rajabhat University for their kind support.

REFERENCES

- Education, Ministry of Education. (2004). Guidelines for the development of internal quality assurance systems in schools. Office of the Basic Education Commission. Bangkok: Organization_Product Admission: Products and Procurement (ETO)
- Kanchana Heetchana et al.(2021). The development of a set of learning activities on the subject of art creation art learning group subject matter of visual arts Based on Harrow's teaching style in conjunction with conceptual maps. for Prathomsuksa 6 students at Wat Khan Ngoen Community School, Lang Suan District, Chumphon Province. Research article. Mahachulana Nakhon View Journal. Year 8, Issue 11, November 2021.Pages 207-220.
- Office of Academic and Educational Standards Office of the Basic Education Commission. (2012). Ministry of Education Guidelines for Organizing Learning Activities to Develop Thinking Skills According to the Basic Education Core Curriculum, 2008, Art Learning Subject Group Secondary level. Printing House of the Agricultural Cooperative Assembly of Thailand, Ltd. 79 Ngamwongwan road, Ladyao Subdistrict, Chatuchak District Bangkok 10900.
- Thanyarot Srimas. (2020). A study of learning achievement. and creativity in art subjects of Prathom Suksa 4 students The learning management is 4 MAT. thesis degree. Education according to the Master's degree program. Department of Educational Sciences and Learning Management, Faculty of Education Srinakharinwirot University.
- Nittaya Wongchu and others. (2012). Development of artistic creativity about drawing and coloring of Prathomsuksa 5 students by creative learning management. Journal of Education, Khon Kaen University, Year 35, Issue 4, October - December, pp. 42-49.
- Uthumporn Chamonman (2001). Explanation of indicators. School quality assessment criteria and inspection sources for basic education quality assurance.
- Chuchot Genetics. (2005). Educational quality management. Suan Sunandha Rajabhat University

- Pawinee Sorawech. (2005). The Development of Quality Indicators for Visual Arts in Art Learning Subjects.Suan Sunandha Rajabhat University.
- Pornpan Inthaiwong. (2010).AStudy of the Effects of Learning Management with Cognitive Development Activity Package on Science Learning Achievement and Science Problem Solving Ability of Mathayomsuksa 1 Students . Master's Education Thesis Srinakharinwirot University
- Pattra Untinakorn. (2021). Development of integrated learning management model to enhance skills in the 21st century for elementary school students of Demonstration School Suan Sunandha Rajabhat University. Journal of Roi Kaensarn Academi ,year 6, Issue 12, December.Pages 50-59.
- Puchaphong Kottabuncha. (2004).Construction of art education program lessons on painting and painting for Prathomsuksa 6 students .Master of Education Independent Study Report. Khon Kaen University
- Ramrin Kuakul et al. (2018). Development of visual arts curriculum at the junior high school level. Kantang Ratsada Suksa School Office of the Secondary Educational Service Area,Area 13. Research articles. Journal of Education, Thammasat University, 11th year, No. 1 (Jan. - Jun.), pp. 283-293.