A Model of Creative Thinking Enhancement for Teachers in Primary Schools under Bangkok Metropolitan Administration

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\section*{ABSTRACT}
Objectives of this research are 1) to study the creative state of teachers, 2) to develop a model for promoting creativity for teachers, 3) to propose a creative promotion model for primary school teachers. Mixed methods research is used for the design. Quantitative research data has been collected from 205 samples whereas qualitative data has been collected by interviewing 10 key informants and holding focus group discussion held with 9 experts. Results found that the teachers had high opinions on their creativity namely experience in teaching and thinking and practice to learn and try to stimulate knowledge. Teachers can always listen to other people's opinions for a reason, bringing old knowledge to think modifying and apply it to something new interested in teaching in the 21st century, teaching by using google classroom, confident in thinking, making decisions to do things. To achieve the goals set can adapt to suit various situations and environments for teachers with creative features, including being active in thinking. Flexible thinking initiates curiosity, confidence in oneself with 5 activities to promote creativity of teachers offers a model to promote creativity for primary school teachers. There are 4 parts: part 1, the lead part is environment, policy, vision, mission, principle, objective. Part 2, a model consisting of 5 aspects of creativity, namely, thinking fluency, flexible thinking including old knowledge to thinking skills. Creative thinking and thinking to solve problems, aptitudes, and their own interests. Promotion of the educational level that focuses at the elementary level (Secondary School Grade 4). According to the basic education core curriculum, BE 2551 can be clearly seen from the provision of basic education. Creative thinking, Enhancement, Bangkok Metropolitan Administration

\section*{Index Terms}
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\section*{Introduction}
Thinking is very beneficial to human life. It will help how to solve the problem and be able to make an appropriate and rational decisions in today's rapidly advancing news and technology age when there is a high competition. Thinking and promoting thinking of children and young people is very necessary. From kindergarten to advanced level [1], which is consistent with the view that Thinking ability distinguishes humans from animals. Able to solve problems for themselves, Able to think of new inventions, Can create happiness for oneself and protect oneself from natural disasters [2]. Creativity is a process of the human brain, that is important to the human world. Creativity has created many new things, whether it is a theoretical concept. Various technological innovations are all caused by human creativity. Creativity is a very important thought power if it has been developed and promoted in a systematic manner. As is mentioned in point 2, there is creativity Curious, love to read, write and research. In addition, students' competency is defined as item 2. The ability to think as a concept. Ability to think critically, Synthetic thinking, Creative thinking, Critical thinking, and systematic thinking can be clearly seen from the provision of basic education. According to the basic education core curriculum, BE 2551 at the elementary level (Secondary School Grade 4-6) is an educational level that focuses on students exploring aptitudes, and their own interests. Promotion of the development of personal personality requires critical thinking skills. Creative thinking and thinking to solve problems requires living skills and skills to use technology as a learning tool Las well as social responsibility. There is a balance of knowledge, ideas, virtues and pride in order to complete a Thailand. The aforementioned characteristics also are necessary as a basis for a career or further study. The Office of the Basic Education Commission has established standards and indicators of thinking. The basic education level or internal quality assessment standard is set out in Standard 4 of the School Quality Assurance, which provides students with critical thinking ability, thinking by synthetic, critical, creative pondering and having vision, with a second indicator of creativity Optimistic and imaginative [3] Nowadays, creativity is an essential skill in life. Creativity will help allowing us to be successful in life. It will help us learn unhappiness with what we were and try to improve ourselves. Creativity can create a wide variety of things, including art, music, literature, innovation in science and technology, etc., all are the products of creativity. Based on above explanation it can be found that creativity is very important Education management according to the National Education Act B.E. 2542, revised and amended in 2002, which adheres to the learner-centered learning principles. [4] Life-long continuous learning through self-knowledge encourages critical thinking and creativity under Section 7, which addresses the learning process. That it aims to instill correct awareness about politics and government in a democratic system with the King as Head of State having a pride in being Thai including promotion of religion, arts,
and culture of the nation, sports, local wisdom; Thai wisdom
and universal knowledge. As well as conserve natural
resources and environment, having the ability to make a
career Self-reliance, being creative, a constant pursuit of
self-learning and learning.[5]
National Education Management Plan 2017-2036 In strategy
3, the development of potential of people of all ages and
building a learning society. Its goal is to include students’
basic skills and characteristics of Thai citizens and 21st
century essential skills and traits, with key indicators such as
learner qualifications and skills. Learn to gain quality and
standards educational institutions / early childhood
development centers organize activities in line with the early
childhood curriculum and the children's competencies linked
to the quality standards of early childhood in ASEAN
Educational institutions at the basic education level that
provide curriculum-based education aimed at developing
learners with additional characteristics and learning skills in
the 21st century, and educational institutions at the
vocational and higher education level that provide
curriculum-based education aimed at developing people to
learn to increase competencies etc. The National Education
Management Plan, promoting creativity for children and
youth in educational establishments is of great importance to
the development of Thailand in the Thailand 4.0 Age.[6]
From the background and importance of the problem the
researcher is therefore interested in studying a model for
promoting creativity for elementary school teachers under
the Bangkok Metropolitan Administration in order to serve
as a guideline for promoting creativity for teachers in
educational institutions in order to apply such creativity to
the body of knowledge for the development of teaching,
self-development, social development, national development
and also continue to prosper and sustain.

Research Objectives

1. To study the creative state of elementary school teachers
under Bangkok Metropolitan Administration.
2. To develop a model for promoting creativity for primary
school teachers under Bangkok Metropolitan Administration.
3. To propose a model for promoting creativity for primary
school teachers under Bangkok Metropolitan Administration.

Research Methods

Step 1: To study the creative state of primary school
teachers by 3 steps: 1) to study documents on the creative
state of primary school teachers, from the data source:
books, articles, textbooks, research work, website, tools:
study form, document analysis: content analysis, content
analysis 2) to give questionnaires about the creative state of
primary school teachers, from 205 primary school teachers,
and 3) to interview about the creative state of teachers with
10 primary school administrators.
The step2: To develop a creative promotion model for primary
school teachers administration by 2 steps: 1) Drafting a model to promote creativity for primary school
teachers: Results from Objective 1 Tool study Document
Data Analysis: Content Analysis and 2) Developing by

Discussion

Step 3: To propose a creative promotion model for primary
school teachers such as revising and presenting together
with the advisor / advisors. Data analysis: content analysis,
Outcome: Creativity model for primary school teachers,
Complete affiliation of Bangkok Metropolitan

Research findings.

1. The study results of the creative state of primary school
teachers under Bangkok Metropolitan Administration. The
research results are found that overall, the teachers' opinions
on the teachers' creativity are at a high level, ranked in
descending order, Self-confidence The curious side
thinking, fluent Initiative and flexible thinking, as shown in
Table 1 as follows,

Table 1 shows the mean and the standard deviation of the
respondents based on their opinions about the creative state
of primary school teachers in all 5 aspects

<table>
<thead>
<tr>
<th>Variable studied</th>
<th>X</th>
<th>S.D</th>
<th>level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Thinking as fluent</td>
<td>3.74</td>
<td>0.779</td>
<td>High</td>
</tr>
<tr>
<td>2. Thinking Flexibility</td>
<td>3.68</td>
<td>0.873</td>
<td>High</td>
</tr>
<tr>
<td>3. Initiative aspect</td>
<td>3.71</td>
<td>0.937</td>
<td>High</td>
</tr>
<tr>
<td>4. Curiosity</td>
<td>3.82</td>
<td>0.741</td>
<td>High</td>
</tr>
<tr>
<td>5. Self-confidence</td>
<td>3.86</td>
<td>0.759</td>
<td>High</td>
</tr>
<tr>
<td>total</td>
<td>3.76</td>
<td>0.605</td>
<td>High</td>
</tr>
</tbody>
</table>

2. Flexible thinking, there are 3 rankings are always willing
to listen to other people's opinions for a reason. There is an
idea of details to decorate or expand the main idea to get a
more complete meaning and have the ability to think and
solve immediate problems in a timely manner. The one with
the least comments is the idea of flexibility in modifications,
and able to think of various kinds able to adapt from one
thing to many things well and interview results. It is the
ability to modify knowledge or experience for many benefits
which are useful for problem solving. The development of
flexible thinking through the use of a continuous thinking
development program. The process of organizing ideas and
content producing ideas in various forms transforming
things to develop ideas
3. Initiative aspect arranged from3 ranks, including using
old knowledge to think and modify and apply it to
something new, like to learn to create new things all the
time, and having the courage to think and try to test their
thoughts The one with the least opinions is creative, and
finds a way to produce results, and the results of the
interview are to be independent, i.e. Put yourself outside the
bounds, rules, frameworks, and shields. Think more because
it will enhance the experience. Relies on concentration and
mindfulness, free from prejudice, social values, and
assessment. Can fight other people's blemishes not giving
time to rush thoughts too much, and not looking for profit
from ideas.
4. Curiosity In order of 4 ranks: enthusiastic at Will always
ask about new things, Want to meet with enthusiasm

www.psychologyandeducation.net
Part 1: The leading part consists of the environment (Environment), i.e., general conditions affecting the adoption of the model, which must be favorable, such as policy, mission, etc. The difference between the characteristics of the administrators and teachers. Principle is the basic concept. And conditions of use conditions for successful implementation of the pattern and precautions to prevent problems that may arise. This is a practice to achieve success in operating 10 Objectives (Object), namely the goal of developing, a model to solve a particular problem, or to enable the operation to produce good results either. There are 7 benefits of the importance of creativity.

Part 2: The model is a feature of 2-dimensional creativity. Flexible thinking Initiative Psychological and personal dimensions consist of curiosity. Self confidence Management Process: methods of operations, activities, and others that must be performed in order to achieve the objectives of the model, including development and performance stages. And 5-step performance evaluation process; and 5 activities for promoting creativity of teachers: 1) Activity for developing thinking fluency, “analyzing, teaching synthesis”; 2) activity for developing flexible thinking “creativity”. 3) Activity for developing the initiative "Invention in the household" 4) Activity for developing curiosity "Good in the community” 5) Activities for developing self-confidence. "Own leadership" Part 3: steps to apply are 1) Structure (Structure) is the mutual link between various elements. That will help make the model more effective, namely decentralization, administration and management of educational obligations. School administration in 4 departments, which are (1) academic administration comprising 17 duties. (2) Budget management, comprising 22 duties (3) personnel management, comprising 20 duties (4) management, general administration comprising 22 duties. 2) Decision Making refers to the process of choosing one of the many options considered, or well assessed that I a way to achieve the objectives and the goal of the pattern which has decision criteria, which is a fundamental factor that makes elementary school under Bangkok Metropolitan Administration successfully implemented a creative promotion model for primary school teachers, under the Bangkok Metropolitan Administration to practice 4 areas 3) Evaluation guidelines, formulation of guidelines and tools for model evaluation for the benefit of checking how much the format functions as designed.

Part 4 : Success Conditions it depends on the context of the elementary school, under the Bangkok Metropolitan Administration, such as, vision, policy of primary school administrators. 3. Propose a model to promote creativity for primary school teachers, under Bangkok Metropolitan Administration, including as follows,

Table 1: Creative thinking models for primary school teachers.
Discussion

The researcher found important points to be discussed about models for promoting creativity for primary school teachers, under Bangkok Metropolitan Administration as follows:

1. The study results of the creative state of primary school teachers under Bangkok Metropolitan Administration are found that Creative state of elementary school teachers under the Bangkok Metropolitan Administration is of the highest rank, the teachers opinions on the teachers' creativity is at a high level, ranked in descending order. Self-confidence The curious side Thinking, fluent Initiative and flexible thinking included as indicated. 

1) thinking fluency makes fluency in expression gathering experience in teaching and thinking and practice to learn and try to stimulate knowledge. By flexible thinking aspect, you can always listen to other people's opinions for a reason. Continuous thinking development activity programs Initiative Bringing old knowledge to think modifying and apply it to something new, for instance releasing yourself, taking oneself outside the bounds, rules, frames and shields of curiosity. Enthusiastic will always ask about new things with an interest in such matters as interested in teaching in the 21st century such as Self-confidence, express confident in thinking of decisions to take action. To achieve the goals set up can adapt suitable for various situations and environments ready to take risks. Dare to do something better than admit one's mistakes. Thinking about things that are important to us and the goals we wanted to achieve.

In addition, the ability to think creatively and independently is associated with a dislike of teachers. Sometimes there is a feeling of despair for the teacher and students with creative thinking ability too. Higher self-esteem will have confidence in academic ability in all subjects, and most has a greater commitment to higher education planning than students who have the ability to Self creativity, and finally, students with a level of creative thinking ability. Higher education enters the school after academic studies and after completing group activities. Anything related to research and creative practice will be discussed further. [7]

2. Development model for promoting creativity for primary school teachers under Bangkok Metropolitan Administration. The development of the model consists of 4 parts:

Part 1: consists of the environment, general conditions affecting the adoption of the model which is favorable, such as policy, vision, mission, etc. The difference between the characteristics of the management and Principle: Basic concepts and conditions of application. Conditions for successful implementation of the pattern and precautions to prevent problems that may arise. This is a practice to achieve success in operating 10 objectives, namely the goal of developing a model to solve a particular problem or to enable the operation to produce good results either. There are 7 items for benefits of the importance of creativity.

Part 2: The model is a feature of 2-dimensional creativity. Flexible thinking Initiative Psychological and personality dimensions consist of curiosity. Self-confidence Management Process: methods of operations, activities, and others that must be performed in order to achieve the objectives of the model, including development and performance stages, and a 5-step performance evaluation process including 5 activities to promote creativity of teachers.

Part 3: steps of implementation are 1) Structure (Structure), namely the mutual link between various elements. Which will help make the model more effective, namely decentralization, administration and management of educational obligations. School administration in 4 departments, which are 1) academic administration comprising 17 duties. 2) Budget management. comprising 22 duties 3) personnel management comprising 20 duties. 4) Administration, general administration comprising 22 duties. Anyone who hopes for success must complete oneself by the so-called power, which is classified in 4: contentment, love for it, persistence in it, mindfulness, attention to it, observance of reason.

Part 4: conditions for success it depends on the context of the primary school, for example, vision, policy of primary school administrators. The above research results are consistent with Poonyarat Sirinupong's research, studying the creation of multimedia games for the development of creativity for early childhood. Early childhood cognitive design where activities within the game encourage children to think. Expresses in a fun way of creativity the efficiency passed the 90/90 standard, which is 98% of all players' average scores on the post-game test and 90% of the players passed the learning objective. [8]

3. Propose a model to promote creativity for primary school teachers under Bangkok Metropolitan Administration, as follows:

Part 1:Preface 1) Environment (Environment) is the general condition affecting the adoption of the model, such as policy, vision, mission, etc. Differences between the characteristics of the administrators and teachers 2) Principle (concept) Basis and conditions of use of Conditions for successful implementation of the pattern and the precautions to prevent problems that may arise, namely, the principles for success in performing work depending on individual character and attitude. Those who will be successful in doing their job should start with changing their attitude about themselves. 3) Objectives: The goal of developing a model to solve a particular problem, or to enable the operation to produce good results with the benefit of the importance of creativity.

Part 2: steps to apply 1) Structure (Structure) is the mutual link between various elements, Which will help make the model more effective, namely decentralization, administration and management of educational obligations. School administration in 4 departments, which are 1) academic administration comprising 17 duties. 2) Budget management. comprising 22 duties 3) personnel management comprising 20 duties 4) management, general administration comprising 22 duties as follows, 1) Decision Making means the process of choosing one of the many options considered, or well assessed that as a way to achieve the objectives and the goal of the models. 2) Evaluation guidelines formulation of guidelines and tools for model evaluation for the benefit of checking how much the format functions as designed. The principle of Buddhism is the principle of power 4, namely 1. contentment, love, and love for that. 2. persistence in that thing, in the creativity of the work to accomplish.
Par 3: Success conditions, it depends on the context of the elementary school for example, vision and management. The findings of the above research indicated that the model for promoting creativity for teachers requires activities and encouragement of teachers' creativity. Project to develop creativity for teachers to be able to develop and apply what has been trained. Used in teaching and learning to primary school children by the results of this research are consistent with the research of Lung infection (2007). The development of creativity of students Grade 1, using art learning activities, target groups used as students, found that students studying with a plan for learning about the arts to develop creativity after studying higher than before studying effectively. The significance at the 0.01 level and also consistent with Somporn Limcharoen (2009). "Development of supplementary curriculum to promote creativity for second graders" [9]

The research results are found that getting elements of creativity that encourage students. This creative idea consists of two dimensions: 1) dimensions of thinking, including thinking fluency, mindfulness, flexibility and initiative and 2) dimensions of mind and character, aging, craving and self-confidence. The results indicated that the experimental group had a higher average score of creativity than the group of students. The control is statistically significant at 0.05 level. The supplementary course is at a very good level. The supplementary curriculum evaluation is found to be effective according to the specified criteria.

After the experiment, the researcher improved the timing and language teaching plans in explanation in some lesson plans to make it more appropriate. Then prepared a supplementary course to promote complete creativity. This is the innovation of teachers' creativity to improve teaching and learning. [10]

Conclusion

A model for promoting creativity for elementary school teachers under Bangkok Metropolitan Administration consists of 4 parts: the first part is the environment, policy, vision, mission, principle, objective, part 2 : the model is the five aspects of creativity, namely, the fluent thinking. Flexible thinking aspect Initiative, Part 3 : The curious side Self-confidence Management processes and 4: Activities to promote creativity of teachers: Activity for developing thinking fluency, "Analyzing, Synthesis, Teaching" Activity for developing flexible thinking "Thinking out of the box", Activity for developing the initiative "Basic household invention", Activity for developing curiosity. I would like to see "good things in the community" activities for developing self-confidence, "own leadership". By relying on the principle of success, which is the base of success; It depends on the context of the elementary school under the Bangkok Metropolitan Administration, for example, vision, policy of primary school administrators under Bangkok Metropolitan Administration.

References