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The Applied of Integrated Learning Model in Dealing with The  
Environmental Life Problems at Primary School in Bandung City,  
West Java, Indonesia

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**Abstract**

Some problems concerning the environmental issues in Bandung City, West Java, Indonesia, related to the mankind are as the following. The awareness of the society, the students, the universities, the households, the industries, the private company, and the government toward the environmental life is very low. Beside, the attitude, the carelessness, and the narrowness of their point of view toward the environmental life contribute to the environmental problems.

Based on the above background, there are some problem statements such as the following: Is it possible to increase the students' awareness, careful, positive attitude, toward the environmental life by applying the integrated learning model.

Integrated learning model is a learning strategy which involves some subject matters in order to develop the useful experiences for the students. The integrated learning model is given to the students because they look at something as a holistic thing. The physical development cannot be separated from the psychological development, such as the way of their thinking, social and emotional development.

The learning process consists of three domains, these are cognitive (to know what), affective (to know why), and psychomotor (to know how). The results of the integrated learning are productive, creative, innovative, and strengthen of students' attitudes, knowledge, skills, and abilities integrated. Besides, integrated learning model demanded that the learning has to be holistic and universal, students' centered, serves the concepts which come from the various subject matters within one learning process, and needs the suitable means. That is why, the integrated learning model needs the professional teacher who will build the character of next nation generation. They are as the high quality human resources who have the awareness, care toward their environment

*Keywords:* environmental life, Integrated learning model.

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**1. Introduction**

Environment is defined as the whole things surrounding mankind and has a U-turn relationship with those mankind. That is why, the environment has to be protected and to be everlasting. By doing so, the environment will give the positive contribution to the everlasting of human life. Within the environment there is ecosystem, That is an arrangement of the entire environment elements which are interconnected among others and shape the environmental balance, stability, and productivity. To look after this kind of environment, it is needed that everybody has the awareness, care, and good attitude toward that environment. Awareness, care, and the good attitude toward the environment have to be built since early childhood. They have to be accustomed and be conditioned toward the environment.

Currently, it is predicted that every year has been produced from about 500 million to one billion plastic bags in the entire world. Besides, it finishes 17 million barrels of oil, and cut down 14 million of trees every year. It can be imagined that if waste of plastics spreaded out will cover the whole surface of the world. If there is no serious care in dealing with that garbage, it will produce air pollution, soil polluted, and will interference the human healthiness.

The care toward the environment, hopefully is considered as sustainable efforts through environmental life education by applying the Integrated Learning Model. The United Nation Environment Activists Meeting which was implemented from 5 to 16 June in Stockholm and followed by 113 countries determined some

environmental life principles. Beside, the 5th of June is decided as World Environmental Life Day.

### *Awareness and Attitude*

Children, as next generation, who will have the responsibility to continue the nation building, it is best for them to be provided by knowledge, skills, and capabilities concerning the environment through the environment education. Environment which we live, must be maintained from the pollution and damage. We, as adulthood, should inherit the healthy environment to the next generation.

Children, who are at the growing and developing phases, always imitate and pay attention to what the adults do and act in term of throwing waste and garbage. As stated by Huttonson (2003), at the growing and the developing phase, children, who are at 6-12 year old, still at the imitating process. In addition, they have the morale awareness to criticize and to imitate what the adults do and act, in term of dealing with waste and garbage problems.

To make children, 6-12 year old, accustomed to throw the waste away, will implant the children awareness. Besides, this children awareness toward the environmental life, will reduce the negative effects of environment degradation. The students' awareness to the throwing waste at the proper basins is the important factor of the healthy of environment learning.

Charter (1992) within Carolyn (1998) stated that *environmental awareness is increasing in schools throughout Europe, with the introduction of environmental topics in a range of school syllabuses, together with wide recognition of the importance of environmental issues as a cross-curricular subject.*

By applying the integrated learning model, it is hope, will increase the students awareness toward the environmental life problems. The degree of children awareness will be influenced by their knowledge, attitude, and behaviour toward the environmental life. Student, at the primary school, as an individual or as a member of a group, cognitively, still at the operational concrete or tangible phase (Piaget within Amin Budiamin et.al, 2006), begins to understand the use of symbols, like words. Student, at this phase, starts to think the correlation between cause and effect, the mutual effects between what was happen and what will be the results.

To implant the students' attitude in order to be care to the environment, it is integrated to some subject matters in the shape of learning process. In this learning process, the teachers use some methods which involve the students' activities directly. The purposes of the involvement of the students' activities are to implant the students' attitude toward the environment and to give some basic skills about creating and to applying the student attitude and their behaviour toward the environmental life. These purposes can be achieved by applying the Integrated Learning Model.

### *Students' Environmental Knowledge*

ASEAN Environmental Education Action Plan 2000-2005 (Nurliana, 2008) stated that, the students knowledge, concerning the environmental life, is begun by being carried out the environmental life through education in the schools, especially at the primary schools. Education related to environmental life is as a vehicle which consists of learning materials, methods for conveying the thoughts, ideas, concepts, etc. for teaching the students. Beside, within the school, the students will be able to understand and to practice the way how to deal with the environmental life problems. The students are next generation who will face and solve the environmental life problems in the future. They have to be provided by knowledge, skills, abilities, good attitude, awareness, and being care to environment. The more the environmental life problems exist, the more the problems to be dealing with. This knowledge can be gained by applying the integrated learning model within the primary school.

Efforts to develop the human resources who have high quality, have to be implemented integrated and sustainable. The availability of the human resources who have high quality will have a great probability to shape the better society at every level of life. Good society is indicated by many indicators such as: ability to solve daily problem, has a wide insight and knowledge, and positive attitude toward the environment. Education is an effort to improve the quality of human resources.

Education holds the very important role in improving the quality of human resources because through education some one's character can be shaped. The future of a nation is depended upon the education. There are three interdependency factor within education i.e teacher, curriculum, and student. At the very basic education, students as the main target of education, views everything as a holistic union, the students cannot see everything as a part. Unfortunately, when they enter to the formal education, such as a primary school, they are faced to the various subject matters partly, so that, they are not able to connect every part of subject matter which is learned partly. Eventually, they have a difficulty in understanding the phenomenon which occurs surrounding us.

In order to bring into reality of human resources who have high quality, every teacher demanded to implement the learning process by processing the teaching material that appropriate with the students' degree of their intellectual development.

## **2. Results and Discussion**

### *2.1 Integrated Learning Model*

Integrated learning model is a learning strategy which involves some subject matters in order to develop the useful experiences for the students. The integrated learning model is given to the students because they look at something as a holistic thing. The physical development cannot be separated from the psychological development, such as the way of their thinking, social and emotional development.

The success of the implementation of integrated learning model is depended on preparation and packaging which appropriate to the students' condition, talent, needs, and their abilities. Every theme has to have the activity's title which is formulated with the positive sentences or the interested sentences for the students. This is by mean, when the teacher serves the learning materials will make the students are interested in doing those activities. The teachers will prepare the class situation appropriate with the theme and learning activities, so that, the students will obtain the very joy experiences, in term of their knowledge, attitude, awareness, skills, and ability. Every theme has its own different time allocation. Some themes can be done at several days, and the others should be implemented within several weeks. These are depended on the wideness, the dept, and the focus of activities.

According to the Ministry of Education and Culture (2013) Integrated Learning Model uses the Scientific Approach Concept. The criteria of Scientific Approach are as the following:

1. Learning materials based on the actual facts and phenomenon which can be explained by thinking logically and logical reasoning, not by imagination, guessing, story, and legend.
2. Teacher's explanation, students' response, and educative interaction between teacher and student free of suspicion, subjective thinking, or not logical reasoning.
3. Teacher motivates and inspires students in order to think critically, analytically, and able to indentify, to face, and to solve problems as well as to apply their abilities to the daily activities.
4. Teacher motivates and inspires students in order to be able to think hypothetically within they look at something differently, equally, or interconnected between one to other learning subject matters.
5. Teacher motivates and inspires students in order to be able to understand, to apply, and to develop their mindset concerning they response to the learning materials.
6. Learning process is based on the concept, theory, and empirical facts which can be responsible.
7. The Learning purposes can be formulated as simple as possible, however, can be served attractively.

### *2.2 The Steps of Learning Process*

The learning process consists of three domains, these are cognitive (to know what), affective (to know why), and psychomotor (to know how). The results of the integrated learning are productive, creative, innovative, and the strengthen of students' attitudes, knowledge, skills, and abilities integrated.

There are two kinds of integrated learning process, these are during the action and during the shape.

During the action period, the students' attitude will integrate their cognitive and psychomotor. This is the conditioning and cultivation phase by doing observation and evaluation. During the shape period, knowledge and skills shape the affective through the learning process. This learning process can be seen at the picture bellow.

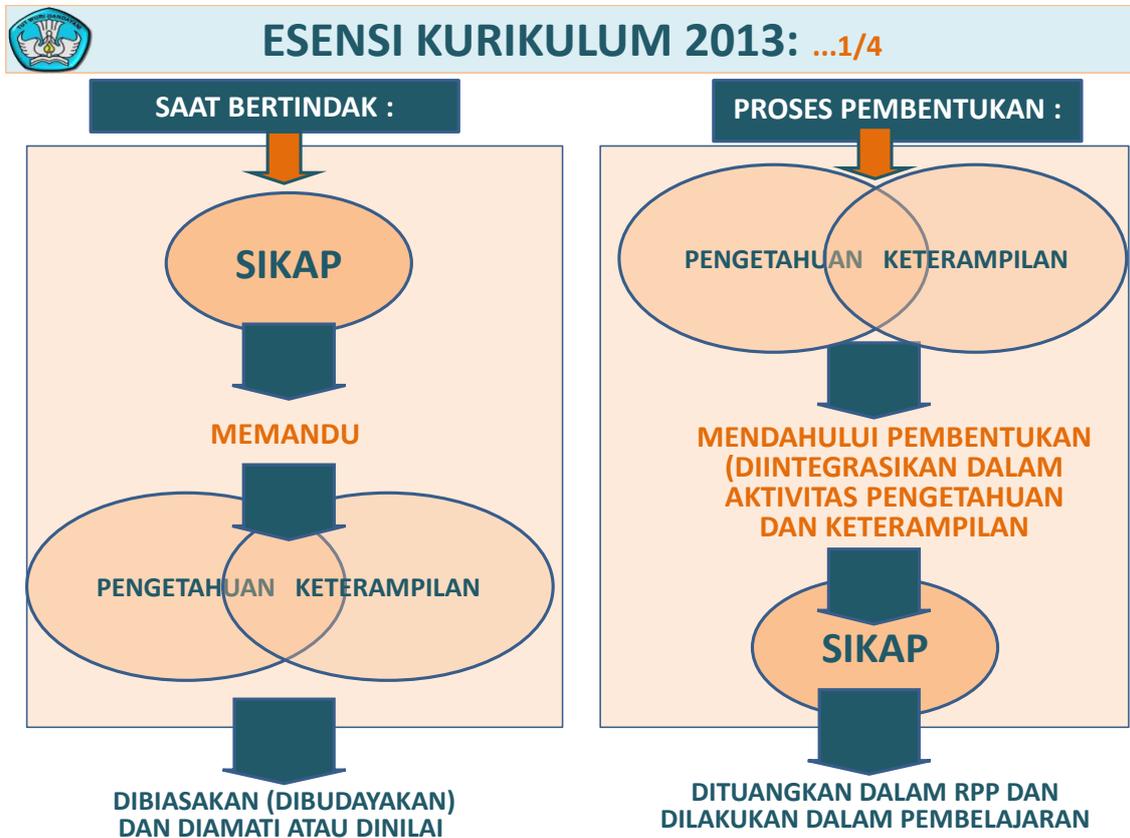


Figure 1. Source: Ministry of Education and Culture, 2013

According to Krathwohl, in the Curriculum 2013, the attitude will be shaped through education is begun by accepting, responding, valuing, organizing or internalizing and characterizing or actualizing. While skills shaped by observing, questioning, experimenting, associating and communicating (Dyers, in Curriculum 2013). In addition, Bloom, in Curriculum 2013, knowledge is shaped by knowing, understanding, applying, analyzing, and evaluating.

### 2.3 Modification of Mindset.

Integrated Learning Model is an integrated efforts among (1) the graduate competencies, (2) the appropriate and the adequateness, the wideness and the deepness of the teaching-learning materials, (3) The revolution and the reformation of the evaluation.

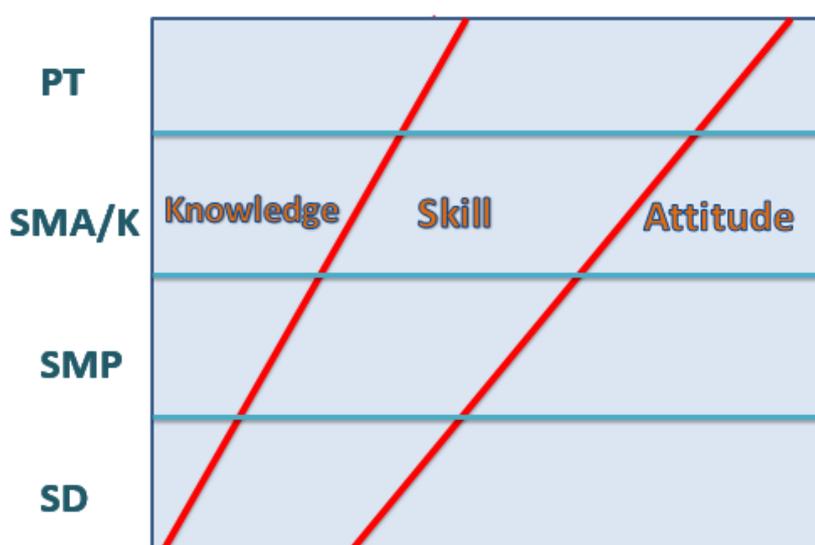
The Equilibrium among the affective, skills and knowledge in order to shape the soft skills, and hard skills can be seen at Figure 2.

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<i>PT</i>			
<i>SMA/K</i>	<i>KNOWLEDGE</i>	<i>SKILLS</i>	<i>ATTITUDE</i>
<i>SMP</i>			
<i>SD</i>			

Figure 2. The Equilibrium among the affective, skills and knowledge

The above picture shows us that the development of the attitude at the primary school is much narrower than that at the junior high school, high school, and at the higher education. That is why the development of the awareness, care, and attitude has to be reformed.



Sumber: Marzano (1985), Bruner (1960).

Figure 3. By Applying the Integrated Learning Model

The above picture shows us that the development of the attitude at the primary school is much wider than that at the junior high school, high school, and at the higher education. That is why the development of the awareness, care, and attitude have to be shaped from the primary school.

### 3. Conclusion

The development of the attitude, awareness and care can be implemented only by education, which expands the integrated learning model. Integrated learning model is a concept that can integrate one to the other subject matters as a package. Within this package the separateness of subject matters is not tangible. The integrated learning model gives the opportunities to the students to think critically. So, the students will be able to understand the problem, either the simple environment problem or the complex one. They will see the problem as a whole. At the integrated learning process, every student is guided to identify the problem, to observe it, to collect, to evaluate, and to use the results of the learning process usefully.

Integrated learning model demanded the holistic learning process, student centered, and serve the concept from various subject matters at one learning process. To implement this concept, the integrated learning model needs the appropriate infrastructure and facilities, the professional teacher who is able to implement this model. By doing this model, it is hope, that the awareness, care, and the attitude of the students toward the environment can be improved.

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