The Effect Of Somatic, Auditory, Visual, Intelectual and Learning Style Towards Students Knowledge Competency in Junior High School (SMPN 1) Koto Baru Dharmasraya District

Aulia Victorina¹* Ramadhan Sumarmin ²

¹ Student of Master Degree Program Biology Department, Math and Natural Science Faculty, Universitas Negeri Padang, Padang, Indonesia
² Biology Department, Math and Natural Science Faculty, Universitas Negeri Padang, Padang, Indonesia
*Corresponding author. auliavictorina@gmail.com

ABSTRACT
This research is based on students lack of motivation in learning teaching process, learning style, and learning method is not quite effective for implementation, teacher-centered learning teaching process, and also students achievement is still low. The purpose of this research is to identify the effect of Somatic, Auditory, Visual, Intelectual towards students’ knowledge competency. This kind of research is quazy experimental with Factorial Design 2x3 research design. The population is grade VII students of SMPN 1 Koto Baru 2018/2019. The sample is taking by using Purpose Sampling technique and was decided that VII A as control class when VII B as experimental class. Instrument that is used here is final test question sheet with 25 objective question. The result shows that experimental class get higher score that is 80,87 when control class is 74,87. It can be concluded that the using of Somatic, Auditory, Visual, Intelectual and learning style can improve students knowledge competency.

Keywords: Learning, SAVI Learning model, Learning style, Knowledge competency.

1. INTRODUCTION
Education is human needs and it is very important for their peaceful life. Knowledge is related with education and hopefully the higher the education the higher their knowledge will be (Erfiani, etc, 2019: 29). According to Degama and Sumarmin (2019:1), education is one of the manifestation of dinamicity and full of culture of human. So that, any developments in education environment is a must and happen as culture changing.

Education in 21th century can be seen by the development of science and technology in many aspects of people, especially in information and technology. Related what has been stated above, some of the requires aspect that is crucial in education is learning and inovating, mastering media and information and communication and also career life (Aswan, etc., 2018:1) Science is one of the lessons that has important place in education world due to it will help students in challenging global era.

As one of the aspects in science, IPAs is hopefully able to help students to fulfill what is needed in 21th century demand (Arifa, etc, 2019: 20). Also, it hopefully can be a media to to students to learn themselves and also from nature, forward development in implementation in daily life (Sari, etc, 2018: 36), This discussion is related with (Handadi and Sumarmin, 2019: 1) research that is science will help students to find what is needed in this 21th era.

Government already designing teaching program that fulfill curriculum demand that is determined today; 2013 Curriculum.

Based on Permendikbud No. 22 Year 2016 about education standart process of elementary level and junior high school level that 2013 curriculum demands that learning teaching process should be integrated with Scientific approach (Eroika etc, 2019:72). On the other hand Sumarmin etc (2017:1) said that Indonesian government already fixing the education system by purpose and consecutively in every aspects of education, can be seen by application of helding teachers improvement through training and Musyawarah Guru Mata Pelajaran (MGMP) to improve education quality. In this curriculum, teacher needs to involve students to be active in discussion but in reality teachers only implement conventional method like teacher doing speech in front of class.

Study as a process that is conducted by both teachers and student to achieve certain goals (Rahmi etc, 2019: 233). Teachers have important role in classroom because they determine what the students will be. It has the same purpose as in KTSP that demand activities that is conducted by teachers consists of their creativity as facilitator and motivator in forming students competency (Ayu etc, 2018:2). Teachers need to have ability in choosing strategy or model that is effective in learning teaching process. Related to Anggriawan (2018: 355) said
that speech method by the teacher is not effective for all learning style because it only suitable for auditory type students. Learning teaching process need to involve students in the process and need to focus not only cognitive aspect but also psychomotor and affective (Anggraini, et al., 2019: 131).

Method and model that does not involve students in learning teaching process tend to cause misunderstanding. In order to solve this teachers need a strategy that relate topic and phenomenon (Mufit, et al 2018: 3). Related to Sari Etc (2018: 1) research that speech method does not effective because it will speech methoh method is not that effective and will cause students get low achievement.

In learning teaching process rarely that students’ characteristic is a focus point for teachers. Every students have their own characteristic and different from other. Students level in understanding a lesson is divide by their level.some of them are fast learner when another is slower (Uno, 2008: 108). According to Saldauy, etc 2019: 1) said that this differentiates is caused by every students have their own speed in understanding the lesson.

The function of knowing learning style of the students is that teachers will find a way to stabilize strategy that teachers use in order to reach learning goal and maximize students potential. Learning style is also one of the factors that determine students achievement. Visual type students is different than auditory which count on their listening skill and kinestetic students like to directly active in learning process (Sari, 2015:16). Teacher should be able to accomodate students’ need in learning teaching process so that learning goals will be achieved especially in science lesson (Rijal and Bachtiar, 2015: 16). Learning competency is students reflection of their mastery on 3 aspects; knowledge, attitude and skill (Meliyani etc, 2019: 250). According to (Sarah, etc 2018: 25) Learning process demand that students to built their own knowledge. Based on interview with science teacher, Ms.Endang Triwarnis Can, S.Pd in SMPN 1 Koto Baru on July 2018, researcher get the data about problems that students face in learning science such as: 1)Low motivation, 2)Heterogeny of learning style, 3)Teaching method is not too effective, 4) Teacher centered learning, 5) Low of students achievement

In order to solve those problems, there is Somatic, Auditory, Visual, Intelektual (SAVI)can be used to solve this. Through this model students will be actively involved, senses will also be used. SAVI model will facilitate all of learning style in the classroom. Meier (2002) SAVI is a model that make students actively involved in activities that involves their senses and also physically.

Somatic (S) means body movement, Auditory (A) means learning by listening and speaking, Visual (V) means observing and illustrating and Intelektual (I). The implementation of SAVI demands students to be active in experimentation, observating and presentating discussions’ result then doing problem solving based on knowledge that they achieved in the classroom. By using SAVI model students will not too dependent on teacher and train them to aspirate their own idea and also improving their motivation on learning teaching process (Sayekti, 2018: 15-16). Also, is also able to combine 3 whole type students; Somatic, Auditory, and visual (Wijayanti, et al., 2013: 3-4).

Some researchers stated that SAVI learning model has good impacts on students. Research that Dewi conducted in 2012 “The effect of SAVI implementation on Grade X Biological students if SMA N 1 Boyolali 2011/2012” shows that SAVI model has impacts on several aspects of students in cognitive, affective, and psycmotoric. Sihwinedar research (2015) “Improving biological students achievement by using SAVI (Somatic, Auditory, Visual, and Intelectual on Grade III Elementary Students of SDN Rejoangung 01 2013/2014” stated that SAVI model make students to be more active in learning teaching process and increase their passing grade percentage. Based on those backrounds, hopefully SAVI model will be able to improve skill competency of students. The researcher has conducted research about it “The Effect of Somatic, Auditory, Visual, and Intelectual Learning Model Towards competency skill in SMPN 1 Koto Baru Dharmasraya Regency.

2. MATERIALS AND METHODS

This kind of research is quantitave in form of quazy experimentalThe design is Factorial design2 x 3. The population is students grade VII SMPN 1 Koto Baru 2018/2019. The sample is taking by using Purposive Sampling technique. VII A as control class and VII B as experimental class. The instrument that is used here is final test that consist of 25 objectives question. Data analizing is by using statistic trial of 2 way Anova.

3. RESULT AND DISCUSSION

3.1. Result

<table>
<thead>
<tr>
<th>Table 1. Students’ knowledge data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Control</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Experiment</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Exp:N</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

168
The result shows that SAVI is effective in improving students competency. It can be seen by the achievement that conventional students achieve by using SAVI. The use of SAVI enable students to find knowledge by themselves. Learning teaching process involves all senses different than conventional that is teacher centered. Students built Students can built knowledge from their experience that enable them to comprehend the lesson in which with their sense actively used that be name as active learning (Rochintaniawati, 2014).

According to Nisa (Nisa, 2017: 50) Learning by doing is the right way to get deep comprehension. By using SAVI model students will learn the application of of knowledge in daily life. In SAVI, students will be train to solve problems and doing critical thinking to certain phenomenon. It related to Ghaida, Nisa etc 2017, learning model SAVI is effective for science. As one of the science aspects, science hopefully fulfill students need to face 21th century. (Arifa, etc, 2019: 20).

One of the factors that affects students achievement in knowledge aspect is sintax from SAVI model as it is related in RPP. It is important to fulfill all of the aspects in order to maintain and developing effective and efficient learning so that the goals will be achieved. According to (Siswoyuono dan susilo, 2016) SAVI focus on critical thinking and physical activity from students so it will improve their comprehension about the lesson.

4. CONCLUSION

Based on research above it can be concluded that the effect of using learning model SAVI can improve students knowledge competency.

REFERENCES


This research is also identify learning style of both class. It is conducted by giving questionnaire to participants. The different learning style of both group will affect their achievement. Visual type students is different than auditory which count on their listening skill and kinestetic students like to directly active in learning process (Sari, 2014:3) Based on observation that has been conducted it shows that *Two way Anovashows average scoreof experimental class is higher than control one. Learning competency of students knowledge wether it Auditory, Visual or Kinesthetic getting improved by SAVI model that follows conventional class. In both class it is identified that visual style is dominated in learning style. Students with visual learning will try to learn by listening and kinestetic one will learn through activity. All students have all the style but only one will be dominated (Bire, etc., 2014: 169). On conventional learning students only focus on using one sense only. They only listen what their teacher said. So only listening sense is used here. On the other hand every students have heterogenous way of learning wether it is by visual, listening or by physical activity. Those are style that students get used to and teacher need to use technique that effect all of that style so SAVI is the answer of that problem.


