

PROCEEDING

ASEAN Comparative Education Research Network Conference [ACER-N 2016]

The ASEAN Teachers:
Towards Standardization of Quality and Qualifications

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PREFACE

We are pleased to present this collection of papers submitted to the 4th International Conference of ACERN, November 30, 2016 in Inna Muara Hotel, Padang – West Sumatra. This is the first ACERN conference held in West Sumatra. The conference was an open gate for us to start the information, experiences, researches as well collaboration between various academics and non-academics institutions worldwide. This expands our mutual knowledge and experiences. Kopertis Wilayah X (Sumatera Barat, Riau, Jambi dan Kepri)

The total of 300 papers from Indonesian, Malaysian and Brunei participants contributed to this proceeding and we also attached the abstract and biography from the keynote speakers within the proceeding. The proceeding also presents a wide variety of research on education from various subjects. The papers use various approaches and strategies for research in education. It will give us different perspectives and knowledge for the development of educational research.

A great team effort also became a big support to the successful of the conference and proceeding. We are grateful to have a hard working organizing committee as well as committed editors and board of experts who gave us the important inputs and reviews of this proceeding. We would like to express our great gratitude to all institution and universities that are Fakulti Pendidikan UKM, Universitas Negeri Padang, and STKIP PGRI Sumbar who organized this event and the proceeding publications. Finally, we also express our appreciation to Bank Syariah Mandiri, Bank Nagari, and Bank Tabungan Negara who supported this event. Thank you for all your contributions. We do hope that you experience a stimulating seminar and informative proceeding with many opportunities of future contacts, collaborative research and application.

Dra. Skunda Diliarosta, MPd Head of Organizing CommitteeKopertis Wilayah X (Sumatera Barat, Riau, Jambi dan Kepri)

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THE DEVELOPMENT OF SCIENCE LEARNING MODULE BASED ON 7E LEARNING CYCLE TO IMPROVE STUDENT'S COMPETENCIES

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Abstract

Science was one of the subjects in Junior High School (SMPN) 12 Padang discuss living beings and inanimate. In science, there are many concepts that students need to learn. The results of the preliminary survey indicate that many students who do not complete in science lessons. This happens because there is no teaching material in accordance with the demands of the curriculum. To help the students in mastering the lessons, teaching materials must fit the demands of the curriculum, attractive, and easy to learn students. To solve this problem developed science learning modules based on 7E Learning Cycle model. The research aims to develop a learning module that is valid science, practical, and effective. This Research used the 4D model of Thiagarajan. The research instrument is the interview guides, observation sheets, sheet validation, the questionnaire for teachers and students, the skills assessment sheet, and achievement test. The results showed that the learning modules have been categorized as valid, practical, and effective to improve students' learning outcomes. It is suggested to the science teacher to use the learning module based on 7E Learning Cycle.

Keywords: 7E Learning cycle, student's competencies.

1. Introduction

Education is one determining factor to increase the human resources quality in order to produce values system and culture to be better. Increasing the education quality is important to get smart and skillful human so that the can compete in globalization era. Due to this, education leads to improvement and completeness to substantive aspects supporting curriculum and learning actor (Ostlund, 1998). The aim of education in statutes of national education system no 20 year 2003 is to develop students' ability and to form character and dignified nation civilization in order to enclever nation life and to develop students' competence. To help students in understanding the learning material, module is one of tools. Module is an individual learning systemto increase the effectiveness and effectivity of learning. Using module can help students to study toward finished achievement since students cannot go on to the next module without achieving the previous module. Prastowo (2013) states that module must be enriched with research result so the students do not only understand the material but also get the information related to material and its function to daily life.

Learning science is learning about facts, concepts, principles, and procedures. Lufri (2015) states that learning science (especially biology) is generally provided in long sentences many terms so that the students tend to memorize without understanding. Actually, science is not a memorial material, it needs deep understanding. Students' understanding must be constructed independently so that the maerial can be settled longer in students' memory. This can be done through direct understanding and connect the material with concepts mastered by the students. Furthermore, based on observation and students interview, there are not many books provided by school and, the books lack of color and uninteresting picture. Teacher also does not motivate students in understanding material. Every school is suggested to design learning process well. This learning process must be related to learning material used. One of leraning material is a module.

Module is a learning material designed systematically for teacher and students in learning process at school. Prastowo (2013) states that a module is a collection of learning materials designed systematically so environment and situation is created to make the students learn well. On the contrary, if the module is not suitable with the criteria, there will a problem during learning. One of considered aspects to develop a module is a learning material due to curriculum intention toward students' need and model in learning.

Learning cycle is a learning model used formally in science program at primary school, Science Curriculum Improvement Study (SCIS, 1974). This learning cyle model was suggested by Robert Karplus in 1960s as a guide discovery: exploration, invention, and discovery (Bybee, 1990). Learning cycle 3 E was developed to be 4 E, then 5 E, and last 7 E (Einsenkraft, 2003) with terms: elicit (raise students' previous knowledge), engage (idea, plan, and experience), explore, explain), elaborate, evaluate, and extend. The formulation problem of this research is how to develop learning science module using learning cycle 7 E for students at class VII practical, valid, and effectively.

2. Research Method

This research used research and development method. The research was done to get information about user' need (needs assessment), while development was done to produce learning module based on 7E learning cycle. Development used the 4D model of Thiagarajan. Thiagarajan (Trianto, 2010) states that the phases of model 4D are define, design, develop, and disseminate. The subject of this research is the students in class VII and science tearcher at SMPN 12 Padang. The instruments observation sheet, validity sheet of learning

module, questionaire responses students and teacher, and test to evaluate the outcomes of learning.

Based on data collected, they are analyzed qualitatively and quantitatively. Data of validity module, observation, questionaires, and test are analyzed descriptively and compared to the criteria of validity, practicality, anf effectivity of learning module. Learning progress data were analyzed qualitatively by revising readibility, activities steps in module. Revision were done based on researcher's note and observation of learning and module used, and opinion of expert judgments.

3. Results and Discussion

3.1. Learning Module based on 7E Learning Cycle

This research has produced a learning science module based on Learning Cycle 7 E. Learning Cycle 7 E is a learning model which apply the studying cycle with phases elicit, engage, explore, explain, elaborate, evaluate, and extend. Learning Cycle 7 E has system: identity, basic competence, indicator, learning goal, studying activities, practice, evaluation, and references. Activities in learning science with 7E Learning Cycle models is referred to Bybee (1989) as seen in table 1.

Table 1.Learning phases with Learning Cycle 7 E

Phases	Teacher's and Students' Activities		
Elicit	Teacher:		
	1. Teacher shows an objects/events /		
	asks some questions to motivate		
	students		
	2. Teacher correlates previous		
	knowledge with the materials learned		
	by the students		
	3. Teacher inspires the curiousity of		
	students by asking some questions		
	Students:		
	1. Studentsunderstand and answer the		
	teacher's questions		
	2. Studentsconcentrateon teacher in		
	correlating the previous knowledge		
	with the materials learned		
	3. Studentsanswer the questions		
Engage	Teacher:		
ment	1.Teacher asks student to tell what		
	they think		
	2. Teacher supports students to		
	interact each other		
	3. Teacher asks some questions to		
	guide the students		
	Students:		

1. Studentsexplore the objects and phenomenon they think 2.Studentsinteract with media and othe students in discussion 3. Studentsanswer teacher's questions Explore **Teacher:** 1. Teacher facilitates the students to do any experiments 2. Teacher supports the studentsto apply learning experience in doing the experiments 3. Teacher gives chance to cooperate in their groupto predict the observation 4. Teacher observes the group doing the experiment **Students:** 1. Students prepare things for experiment 2. Studentsaplly their learning experience in doing experiment 3. Students do the experiment 4. Studentstake a note Explanat **Teacher:** ion 1. Teacher asksstudentto explain their understanding about new concepts 2. Teacher introduces new concepts and clarify the misconception 3. Teacher asksstudentsto show the fact or data in explanation **Students:** 1. Studentsexplains their understanding about concepts they learned 2. Students listen to teacher's explanation 3. Students apply their learning experience in explanation Elaborati Teacher: on 1. Teacher introducesnew concepts 2. Teacher develop students'

-	
	understanding and skill
	3. Teacher focusesstudemts in
	conseptual
	4. Teacher supportsstudentsto use
	ideas they learned
	Students:
	1. Studentslisten to teacher's
	explanation
	2. Studentsapply new concepts in
	different contexts
	3. Students make relationship
	between new experience and
	experience had before
	4. Studentsuse ideas that they have
	obtained
Evaluate	Teacher:
	1.Teacher asks some questions to
	students which direct to the
	conclusion
	2. Teacher observes and records the
	pedagogy
	3. Teacher evaluates the students
	Students:
	1. Students answer and explain
	2. Studentsconclude the learning
	3. Studentsperform their ability
Extend	Teacher:
	1. Teacher gives chance for the
	studentsto tell their opinions
	2. Teacher interviews the students
	3. Teacher asks the studentsto do
	reflection of learning
	Students:
	1. Studentscompare their ideas
	2. Studentsget interviewed
	3. Students also reflect learning

3.2. Validity of Learning Module

Learning Module of science based on 7 E Learning Cycle is validated bythree expert judgments. Aspects validated are: Content feasibility, Construction feasibility, and Readibility. The Validity Result of Learning Modulecan be seen in Table 2.

Table 2.Validity Result of Learning Module

Expert	Content	Constructi	Readibi	Avera
Judgm	Feasibili	on	lity	ge

ent	ty	Feasibi	lity	
FF	3.8	3.4	3.9	3.7
SF	3.7	3.5	3.8	3.67
YF	3.8	3.6	3.9	3.77

The validity result of learning science module based on 7 E learning cycle shows that learning module is valid.

3.3. Practicality of Learning Module

Learning Module test is done to get data about practicality of module. This was done for four times. Observer in this test were science teacher in SMPN 12 Padang. Observer observed the learning process and learning module used. The practicality of module was observed from learning responses of students and teacher. The students and teacher responses to learning showed that module can be done by the students. In short, learning science module based on 7E learning cycle is practical.

Table 3.Practicality of Module Learning

Aspects	Average	Category
Learning progress	3.6	Practical
Teacher's	3.56	Practical
responses		
Student's	3.54	Practical
responses		

3.4. Effectivity of Learning Module

Effectivity of using this module was observed from students learning outcomes in knowledge, skill, and attitude. The average of students learning outcomes in knowledge was 87.45 and the percentage of learning achievement was 90.1 %. The average of students learning outcomes in skill was 82.27 and the percentage of learning achievement was 86.3 %. The average of students learning outcomes in attitude was good and very good for all students 81.5. More than 85% of students amount has decided achievement criteria. In short, it can be stated that learning science module based on 7E learning cycle is effective to increase students' learning outcomes.

3.5. Discussion

Learning science module based on 7E learning cycle in this research are valid, practical, and effective to increase students' learning outcomes. This is related to Piaget theory which states that learning is a development of cognitive aspect including content, stucture, and function (Towndrow and Tan, 2008). Intelektual structure is high mental oraganization that students have to answer question and solve problem. Content is students' attitudes to respond the faced problem. While function is a process of intelectual development including adaptation and organization.

In learning science with model 7E learning cycle, students observe the phenomena in their surroundings. Students try to predict and develop the concepts as suitable as their knowledge. Moreover, students come to to school without blank minded, but they have their own conception to study in the class. Students has already own their ideas about science concepts before coming to the class (Citrawathi, 2000).

In 7E learning cyclemodel, engagement phase is aimed to attract the students' interest so that they create relatioship with previous knowledge (Carin dan Bass dalam Cartono,

2007). Effect of this phase toward learning activities progress is: centering the students' attention. This happens because teacher doe not need to explain learning proses done, students have already been able to know by learning the preface. Learning process with 7E learning cycle model gives opportunity for the students to share ideas with their groupmates during the discussion to solve questions given to test their understanding or concepts. Besides, material adopted in module is complete and understandable so that it can help students to get relevant information to educational level. As Harjanto (2008) states that learning is a process of transferring knowledge done by the students, activeness is for students only, the teacher supply and tell the way of good learning. Phases in module based on 7E learning cycle have given contribution to learning process. This is relevant to Adnyana dan Citrawathi (2008) states that module based on 7E learning cycle has some strenghts. They are: interesting, understandable, challenging tasks, and support students to learn actively; active to think and to do. Students' learning achievement taught by using module based on 7E learning cycle is better than using convensional module (Citrawathi, 2006).

4. Conclusion

This research has produced a module for learning science based on 7E Learning cycle. The module of learning developed is valid, practical, and effective to improve the students' competencies. Students' knowledge and skill are more than 85% achieved. Students' attitude is good and all students are good. It is suggested for science teacher to use leaning module developed. Then, for the next researchers are able to develop learning module with materials which have not been researched.

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