



IMPROVING CRITICAL THINKING SKILLS THROUGH *DECISION MAKING LEARNING MODELS* IN PANCASILA AND CITIZENSHIP EDUCATION SUBJECTS

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Abstract

Education is things that are very important and what are not can free from life. Think critical is persistent efforts for test something to believe in the truth or knowledge with supporting evidence so that more carry on can taken correct conclusion. Skills think critical based on opinion a number of expert that is a habit for analyze, synthesize and evaluate information for solve a problem. *Decision making* is election decision or based policy on criteria certain. This study aim for explain how increase skills think critical student through learning models *decision making* on the eyes lesson education Pancasila and citizenship. Method used in this study is study bibliography. This study using secondary data form journal scientific, results study as well as books and other relevant sources. Data analysis techniques used covers three stages that is organizing, synthesizing, and identifying. Research result This show that learning model *decision making* on the eyes lesson education Pancasila and citizenship with stages including 1) identify problem, 2) looking for data for solution problem, 3) create conclusion, have relevance until indicator think critical covering interpretation, analysis, evaluation, and retrieval decision.

Keywords : Thinking critical, decision making, education

Introduction

Education System is principle important for wake society and the country towards more good. Education as means development humans who have character for progress expected nation keep going continuously do development through various aspect good means infrastructure nor various effort enhancement teacher competitions, development of learning models, curriculum, and so on. Education as one business enlighten nation put ability think as competence important. Objective from system education are educated people who are independent and capable think effective. Student alone must educated and motivated for research (Atabaki, Keshtiaray & Yarmohammadian 2015). See education at the moment this is a teacher at school tend focus on information transfer with give portion limited to thought critical and creative. According to Law no. 14 of 2005 teachers are power professional educators who have task for educate, teach, guide, direct, train, assess and evaluate participants in children's education age early through formal pathways of primary education and secondary education. The teacher is Education components that have role important in formation development students, so required enhancement ability, quality and professionalism because will face participant keep educating continuously follow development developing science and technology fast this moment. In fact the learning carried out by the teacher is carried out only as routine for do task as teacher, and no own desire for do motivational and engaging creativity in activity learning. The low education in Indonesia in particular in field science caused Because interest student in prove still low. According to results research conducted by (Suratno 2017) stated that interest student in matter prove something principle nor concept, doing investigation and generalization still not enough. Lack of interest student caused by several one thing that is method insufficient learning appropriate so that

in the learning process student not yet involved in a way active. Lack of interest student in prove the so that low impact think critical student. Demands in field education the more tall. Abilities needed in the 21st century, namely skills think critical (Fajrianthi, Hendrian , and Septarini 2016). Skills think critical thinking is also necessary for face global and various challenges problem along with development of science and technology. The 2013 curriculum is demanding student for develop experience learning that gives chance wide for participant educate in learning. Problem education moment this is lack of development skills think critical student through the learning process.

Ability think critical is one of ability think level high (Adnyana 2012). Challenge in the world of education that is demand student for think think level high (HOTS). On learning PPKn is very necessary ability think critical students to be able finish problems found. According to (Cottrell 2005) states that think critical is ability for conclude with appropriate something problem, review go back and research in a way comprehensive decision taken. Think critical too method think For analyze something argument and bring up something insight (Kartimi 2012). Think critical is persistent efforts for test something to believe in the truth or knowledge with supporting evidence so that more carry on can taken the right conclusion (Yuli and Asmawati 2007). Think critical too method think for analyze something argument and bring up something insight (Kartimi 2012). Ability think critical need integrated in learning as something learning process objectives Because can become provisions experience for can compete in the future coming (Rachmawati and Rohaeti 2018). Circumstances like here it is so need improving the learning process with use something method proper learning for develop ability think critical. Students who have Skills think high criticality will own results study high and will capable for filter something information that is not all information something what are we expect. So it is very necessary method possible learning develop think critical of someone student. That matter prove that think critical thinking is very necessary in learning. The low think critical student caused because in the learning process still dominated with memorize so that impact on results study. According to (Hayes and Devitt 2008) stated that on learning now this think critical No developed or practiced in a way wide during education intermediate. Therefore that, the teachers are obliged help student develop ability think critical need for finish something problem. Ability think critical participant educate can developed with one model, namely the *decision making* model. *Decision making* is election decision or based policy on criteria certain. Learning model *Decision Making* is one of the learning models that can be done increase ability participant educate for work The same between fellow in choose actions alternative for solve something problem. The advantages of this model can give different experience for every participant educate, like participant educate can think critical in solve problem, be brave put forward inside opinion group or outside group, appreciate ideas or other people's opinions, and being able make or choose decision on each alternative in solution problem.

Research Methodology

This study use method studies librarianship (*library research*). This study using secondary data form journal scientific, results study as well as books and resources other relevant references. Data analysis techniques used covers three stages that is organizing, synthesizing, and identifying. Research result this show that the decision making learning model is on the eye lesson education Pancasila and citizenship with stages including 1) identify problem, 2) looking for data for solution problem, 3) create conclusion, have relevance until indicator think critical covering interpretation, analysis, evaluation, and retrieval decision.

Result & Discussion

Brief history think critical

In ancient Greek tradition appear thinking that somebody must can think in a way systematic for track implications in a way broad and deep because only comprehensive, reasoned and responsive thinking can do it bring man to more direction good. In century medieval, tradition think critical systematic realized in writing and teaching thinker like Thomas Aquinas who gave birth thinking *Summa Theologica*. Aquinas improves awareness that no only potency strength reasoning just attention, reasoning should nature systematic and can checked in a way cross (*cross-examined*). In the *Renaissance era* (15th and 16th centuries), it was born contributing thinkers the idea is on the concept think critical. Francis Bacon, in England, in fact explicit concerned with abuse thought for look for knowledge. Bacon admitted in a way explicit that thought no always correct because thinking own trend naturally. In his book *The Advancement of Learning*, ia put forward importance learn the world thoroughly empirical. He put down base for knowledge modern knowledge with the emphasis is on the collection process information. Hobbes and Locke (in English 16th and 17th centuries) shows the same belief in matter draft thinking critical. Both of them see that thinking critical can open view new about learning. Hobbes adopted view naturalistic about the world where everything something must explained with evidence and reasoning. Locke revealed analysis

sense Healthy about life and thought daily. He put down base theoretical for thinking critical about right basic human and responsible answer government for subject to criticism from wise citizen. In the 18th century, it happened expansion conception related with conception from think critical that yourself and how utilise to in field knowledge study other. As example moment ability think critical applied to science economics , then be born Adam Smith's theory, namely Theory of Development and Economic Growth (*Wealth of Nations*). In the same year, above application from loyalty to the king, born declaration independence (*Declaration of Independence*) and when think critical That applied to reason so the known is born with Kant's criticism of pure reason (*Kant's Critique of Pure Reason*).

In the 19th century, thinking critical expanded more far to in the domain of life social man by comte and spencer. Thinking criticism is also applied to problems productive capitalism critics social and economic Karl Marx. Thinking criticism applied to history culture human and basic life biological , then be born Darwin's theory. Applied to the mind lower aware, then be born the works of Sigmund Freud. Applied to culture, then bring up formation field studies Anthropologist. Applied to language, ia leads to field Linguistics and many investigation deep about function symbols and language in life man. In the 20th century, understanding about strength and nature think critical appear in increasingly formulation explicit. In 1906, William Graham Sumner published a studies breakthrough about basics sociology and anthropology that is *Folkways*. In his book, he document trend thought man for think in a way sociocentrism and tendencies parallel for school for serve function (no critical) of indoctrination social. Use term think critical for describe something objective education put forward by philosophers American national namely John Dewey (1910). But John Dewey was more often call it as thinking reflective. Dewey defines it as consideration active , persistent and careful from every trust or form alleged knowledge based on reasons supporting it and conclusions more further (Dewey 1910). Lipman (2003) in his idea opinion that think critical related with growth cognitive and responsible answer intellectual as well as believe that ability for always correct self is one part important from think critical. Factor interests and trends own role important in think critical. Skills base like reading, writing, arithmetic and verbal in communication own role important in develop skills social but no enough for think critical. Hove (2011) does study about development think critical at school intermediate. Investigate influence teaching thinking strategy critical of skills think student is objective from this study. Findings show that performance taught students with strategic thinking critical more good than others. In the 21st century now, concept thinking critical start often echoed in education . Learning at school expected can practice student for can think critical. Learning no only regarding knowledge transfer but also mature thought students so they can solve problems and thinking creative. Ability think critical here's what it doesn't can taken transferred by technology.

Skills think critical

Skills think critical very important in the learning process especially deep learning in the 21st century this now. Think critical is very important carried out in learning education Pancasila and citizenship (PPKn). By contextual, thinking can classified into 2 parts, namely think level tall (*high order thinking*) and thinking level low (*low order thinking*). Learning education Pancasila and citizenship in the 21st century this emphasize student for think critical so that can implement skills through existing knowledge obtained. With thereby educational goals can be achieved in accordance for think critical student. Think critical is ability For know something problem more in depth, and find ideas for overcome problem (Putri and Sobandi 2018). According to (Lalu 2011) stated that think criticalis think in a way clear and rationality necessary for communicate idea, create decision, analyze, and solve problem. Opinion another expert that think critical is take something decision with method rational to what one believes (Slavin 2008). With ability think critical can cause somebody take decision with good (Susilowati, Sajidan, and Murni 2018). Skills think critical based on opinion a number of expert that is a habit for analyze, synthesize and evaluate information for solve a problem (Salim *et al.* 2014). According to (Facione 2013) experts interpret think critical as encouragement arrangement self through interpret, analyze, evaluate, explain based on evidence, concepts and considerations contextual. Think critical involve something activities, such as analyze, synthesize, create consideration, creation, and implementation knowledge only in the real world (Hatari, Widiyatmoko, and Parmin 2016). Think critical is thinking that comes in sense and how taking decision about What is being done or believed (Fisher 2009). T

hat matter in line with according to (Larsson 2017) that think critical interpreted as effort somebody search something truth from information based on evidence, logic and belief . So think critical is something incoming thoughts resourceful and reflective for finish something believed problem student that alone with knowledge existing knowledge owned. Skills think critical is business apply rational, activity high thinking, which includes activity analyze, synthesize, know problems and solutions, concluding, and evaluating (Matsun, Sunarno , and

Masykuri 2016). Ability think critical thinking is very necessary developed in learning specifically learning education Pancasila and citizenship for finish something problems, and for can compete in the future come. Skills think student can improved with method learning more student - centered and not only emphasize student for lots use memorize but student given something problem for increase ability thinking (Widiadnyana, Sadia, and Suastra 2014). Skills think critical has developed by several expert . (Paul and Elder 2007) define that someone who has ability think critical own characteristics, namely : 1) formulate questions and answers from something problem with clear and accurate ; 2) collect relevant information and use thinking in a way effective ; 3) conclude and good solution in accordance with relevant criteria and standards , 4) have thinking open, and 5) communicate in a way effective for find solution problem. (Facione 2013) indicators think critical consists from six aspects, namely : interpretation, analysis, evaluation, conclusion, explanation and arrangement self. Based on understanding on can concluded that skills think critical is one of ability think level tall for know problems and finding the right ideas for finish something problem the according to what is believed. Skills think critical consists from several indicators, namely interpret, analyze, evaluate, as well make something decision for solve something problem.

Learning model Decision Making

Understanding Decision Making Models

Decision (*decision*) as a matter of fact language that has the meaning of choice or *choice*. Something the option in question is choice of two or more possibility choice. As stated by Gito Sudarmo, that decision related with provision or set in accordance selected wish . Meaning decision from definition on are : (1) there is choice on base logic or consideration, (2) exists a number of one of the alternatives must selected the best, (3) exists desired goal achieved and decisions that the more get closer to the goal. After understand taking decision, then will quote expert opinion related understanding or Meaning from taking decision (*decision making*). According to Steiner retrieval decision (*decision making*) is a process based on values facts, summing up a choice from alternative with meaning move going to desired situation. Understanding this show that taking decision is a selection process alternative best from a number of alternative in a way systematic For prosecuted continue (used) as something method solution problem. According to (Laux) *decision making* is decisions used for describe action or selected alternative. According to (Robin), *decision making* is: choose two or more alternative for do something action or solution problem in a way group. *Decision making* model general is a learning model that can increase ability participant educate for work the same between fellow in choose actions alternative for solve something possible problems improve participant educate in think critical. Taking decision can interpreted as election alternative best from a number of available options as something method in solution problem. Based on the opinions above, learning models *decision making* is a model that can used for increase ability think critical participant educate in solve something problem with election alternative in a way group or work the same.

Learning model steps decision making

Learning model *Decision Making* is a grouping model participant educate become group small. Learning with *the Decision Making Model* you can done with grouping participant educate in a number of group, each member group directed For discuss and learn together with a purpose for reach success his group. How to determine group on the learning model taking decisions (*decision making*) include : (1) Make group discussion (2) In make group should heterogeneous (3) Determination group should set by the teacher (4) Giving present or group appreciation According to (Diani *et.al* 2017) Learning model steps *decision making* is as following :

Table 1. Steps to the Decision Making learning model

No	Model steps <i>Decision Making</i>	Treatment
1.	Information	At stage this is what the teacher gave information, goals learning then give material and questions for solved
2.	Formulate Problem	At stage this is what the teacher invites participant educate for formulate problem in accordance with question
3.	Identification	At stage this is what the teacher asked for participant educate identify problems and create alternative solution problem in a way group
4.	Solution Problem	At stage this is what the teacher invites participant educate

		for think, invite participant educate for put forward and choose alternative
5.	Formulate Conclusion	At stage this is what the teacher invites participant educate for conclude all over information that has been earned and given award

From the opinion above that has been explained steps of *the decision making* model can concluded bagwa steps of *the decision making* model is a formative learning model group small for participants educate intertwine work the same for solve problem, so participant educate can solve problem with good and have ability think good criticism. Therefore that, writer using the steps according to Diani as reference in this study. Advantages and Disadvantages of Learning Models *Decision Making*. According to (Diani *et.al* 2017) stated that , advantages from the Cooperative Learning Type model Decision Making (*Decision Making*) , namely :

1. Remove characteristic important self Alone or selfish
2. Increase willingness using other people's perceived ideas more Good
3. Possible participant educate each other Study about attitude , skills information and behavior
4. Increase favorite be friends without looking difference
5. Make participant educate role active in the learning process
6. Give different experience for every participant educate , like participant educate can think critical in solve problem
7. brave put forward inside opinion group or outside group
8. appreciate the idea or other people's opinions
9. capable make or choose decision on each alternative in solution problem

Disadvantages of learning models (*Decision Making*):

1. Need enough time Lots
2. Lack of opportunity For individual

Learning model relationship decision making with think critical

Develop Skills think critical student in the learning process education Pancasila and citizenship (PPKn) can realized through an applied learning process principle learning think level high (HOTs) in the 21st century, where student involved in a way active in learning process activities teach. Learning that uses learning models *decision making* own linkages between indicator think critical that is formulate problem, analyze, evaluate and retrieve conclusion. Skills think critical student can developed through involving methods student active in learning. Through involved learning student in a way active in the learning process, support student in build his knowledge alone as it is in activities that have been given by teachers like analysis problems and can conclude problem that alone. Related between learning models *decision making* with think critical can concluded that happen enhancement think critical student in solve something problem. As results from a number of study as done by (Eulis *et.al* 2020) results his research show that learning through a *decision making* model more effective increase Skills think critical student compared to with learning conventional.

Conclusion

Related expert opinion can concluded that ability think critical is one of component from learning 21st century. Where to think critical that is think level height consisting from analyze, evaluate and retrieve something trusted decision for finish something problem. Develop Skills think critical in learning model system *decision making* can be realized through an applied learning process principles which is the 21st century learning more centered on the students it consists of from a number of stages namely : create formulation problem, analyze, and conclude the results that have been obtained. Learning model process *decision making* use stages contained in research previously which has relevance with indicators on ability think critical , which includes interpretation, analysis, evaluation, and decision. By overall, concluded that ability think critical student can improved with using a learning model *decision making* on the eyes lesson education Pancasila and citizenship.

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