The Impact of Philosophical Inquiry Method on Classroom Engagement and Reasoning Skills of Low Achievers

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Abstract
This research project attempted to investigate the impact of applying philosophical inquiry method of teaching on classroom engagement and reasoning skills of low achievers. Low achievers are those who have the potential to succeed but lagged behind because of several factors that demotivate them to perform at their highest ability. In this study, low achievers were students who failed or obtained the lowest grades in previous standardized school examination. They were 22 students aged 12-13 years old from a school in Gombak district, Malaysia. The students were observed and video recorded while participating in discussing the questions they had formulated in response to the given stimulus materials. Many assumed and projected that these students would not succeed in school and life; and would not have the intelligence to engage in discussion that employed higher order thinking. However, the findings revealed that when low achievers were given opportunities to voice out their opinions in dialogic pedagogy, they demonstrated the ability to be focused and engaged in classroom discussion. Furthermore, this pedagogy has proven effective in stimulating higher order thinking or reasoning skills among low achievers. Specifically, this study found indicators of behavioral, emotional and agentic engagement among low achievers; and demonstrated that low achievers were capable of asking higher order thinking questions, clarifying meanings, giving examples, making conclusion and inductive reasoning, distinguishing and classifying ideas.

Keywords: philosophical inquiry, low achievers, dialogic pedagogy, classroom engagement, reasoning skills

1. Introduction
Low achievement is measured by the variance between the actual achievement and the potential achievement. This means that low achievers are capable of achieving specific grades through traditional means of evaluation, however they failed to achieve for several reasons (Chakrabarty & Saha, 2014; McCoach, 2001; Marks, 2000). Low achievement is correlated to a myriad of negative consequences. Therefore, the issue of low achievement must be one of the main agenda of any education system. Studies have revealed that low achievement is one of the strongest predictors of future failure in school (Williamson, Applebaum, & Epanchin, 1991; Capella & Weinstein, 2001; Shaywitz et al., 1995); school dropout (Battin-Pearson et al., 2008); and school suspension and retention (Ergle, 2003; Sheryl, Stephanie, Herrenkohl, Toumbourou, & Catalano, 2014; Jones, 2013). Other negative impacts of low achievement are anti-social behaviors (Rogers & Feller, 2016; Rubin, 2006) and delinquency (Felson & Staff, 2006; Bryant, Schulenberg, O’Malley, Bachman, & Johnston, 2003).

A vast majority of studies found that low achievers exhibit predictable behaviors. They are disruptive in the classrooms (Tremblay et al., 1992; Ellis, Hart, & Small-McGinley, 2001; Kamal & Bener, 2009); play truant (Mijinyawa, Bakar & Muhammad, 2015; Ishak & Fin, 2015; Bobakova, Geckova, Klein, Dijk & Reijneveld, 2015); they have poor motivation and poor self-esteem (Guay, Boivin, & Marsh, 2003; Reiss, 2009); poor academic self-concept and poor self-confidence (Zhang, Zhao, & Yu, 2010; Sagor & Cox, 2004; McCoach, 2001; Chakrabarty & Saha, 2014); and they have poor engagement in classroom activities (Finn & Rock, 1997; Furlong & Christenson, 2008; Legault, Demers, & Pelletier, 2006; Crumpton & Gregory, 2011; Maynard, Salas-Wright, Vaughn, & Peters, 2012). Studies have reported positive correlation between student classroom engagement and academic achievement (Kennedy, 2010; Wang & Holcombe, 2010; Dotterer & Lowe, 2011; Reyes, Brackett, Rivers, White, & Salovey, 2012).
Rosnani has established the Centre for Teaching Thinking at the Kulliyyah of Education, International Islamic University Malaysia. Many of the research done by Professor Rosnani and her team involved participants who were mediocre and good students. Nevertheless, no study has been done in Malaysia to discover whether this method can promote classroom engagement and stimulate reasoning skills among low achievers. Several studies reported that low achievers were able to ask higher order thinking questions and were able to engage in philosophical discussion (Jenkins & Lyle, 2010; Spiteri, 2013; Youssef, Campbell, & Tangen, 2016; Gorard, Siddiqui, & See, 2016). Therefore, this study was conducted to look for evidences of low achievers’ ability to be engaged in all four dimensions of engagement in philosophical inquiry sessions; and to discover whether philosophical inquiry method could stimulate reasoning and discussion among low achievers.

Philosophy for Children program was the brainchild of Matthew Lipman who invested his time to create a program to promote excellent thinking among adolescent and children in America for he was dismayed with their quality of thinking (Lipman, 2003). Since 1974, this program has developed into a world renown program and has been adopted and adapted by many researchers and practitioners throughout the world. Thousands of research have been conducted to discover how this program could help children and adolescent to think well. In Malaysia, Professor Rosnani Hashim and her team from the International Islamic University have been conducting research to provide evidences of the effectiveness of this program in promoting good thinking (multidimensional which consist of critical, creative, ethical spiritual and collaborative thinking), communication skills and self-concept (Rosnani Hashim, 2012; Juhasni Adila, 2010; Preece, 2012; Wan Mazwati & Lina Mursyidah, 2016). She adapted this program and renamed it as Hikmah Pedagogy to suit the environment in Malaysia where the word philosophy is looked at with suspect.

Hikmah Pedagogy uses philosophical inquiry method to incite students to ask philosophical questions and to engage in philosophical discussion. The main tools in asking and discussing philosophical questions and answers are philosophical thinking skills which include critical, creative, caring and collaborative thinking skills. Professor Rosnani has established the Centre for Teaching Thinking at the Kulliyyah of Education, International Islamic University Malaysia. Many of the research done by Professor Rosnani and her team involved participants who were mediocre and good students. Nevertheless, no study has been done in Malaysia to discover whether this method can promote classroom engagement and stimulate reasoning skills among low achievers. Several studies reported that low achievers were able to ask higher order thinking questions and were able to engage in philosophical discussion (Jenkins & Lyle, 2010; Spiteri, 2013; Youssef, Campbell, & Tangen, 2016; Gorard, Siddiqui, & See, 2016). Therefore, this study was conducted to look for evidences of low achievers’ ability to be engaged in all four dimensions of engagement in philosophical inquiry sessions; and to discover whether philosophical inquiry method could stimulate reasoning and discussion among low achievers.
1.2 Philosophical Inquiry

Inquiry is an activity of searching for answers to specific problems. Philosophical inquiry is a quest for answers in philosophical problems. The inquiry is philosophical when it investigates issues that is common, contestable and central (Lipman, 2003). Examples of such issues are the concept of happiness, moral values, existence, knowledge and so on. The pedagogy of philosophical inquiry follows specific procedures. Students are seated in U-shaped seating arrangement to promote two-way communication between students and students and students and teacher. Firstly, on the first session, teacher and students discuss to establish and agree on rules and procedures to be followed during the sessions. Next, students are given stimulus materials in forms of stories, pictures, poems, newspaper clippings, and videos. Students are asked to read, observe, watch and analyse the stimulus materials and they are encouraged to ask questions based on the stimulus materials. The questions asked by students will be written on the whiteboard. Students are expected to ask philosophical questions which emerge out of curiosity, cognitive dissention, and absurdity of experience (Golding, 2006). Philosophical questions “…are essentially contentious. They do not call for correct answer. They demand further investigation and admit of different answers that may have one merit or another…They require students to think for themselves” (Cam, 1995: 15). Subsequently, students discuss to answer the questions that they have raised. The role of teachers is to facilitate the discussion and ask more probing questions so that students are able to clarify, justify and defend their answers or beliefs and to make sound conclusion. Dialogue is the most significant procedure of philosophical inquiry method. Studies demonstrate that dialogue is an effective tool to stimulate classroom engagement (Rubin, 2006; Murphy, Wilkinson, Soter, Hennessey, & Alexander, 2009; Walker, Wartenberg, & Winner, 2012; Slakmon & Schwartz, 2014; Gillies, 2015).

Dialogue is concluded as the primary philosophical skill (Ross, 1993). It involves the process of questioning-and-answering for the purpose of arriving at some truth. Socrates developed a method of dialogue that is interrogative similar to a lawyer’s grilling a witness at the stand. German philosopher, Leonard Nelson (1882-1927) founded the modern Socratic dialogue as a method of teaching. In a Socratic dialogue, members are expected to postulate their claims and ideas; and clarify and argue so that they could reach at some consensus on the issues discussed (Nelson, 1993). The aim of Socratic dialogue, according to Nelson, is to assist students to use their own thinking to answer their own questions.

Dialogue is an important part of doing philosophical inquiry and dissimilar to a conversation, dialogue aims for truth or some kind of conclusions however partial they may be (Lipman, 2003). Staying true to the adage of Socrates, Lipman maintains that “in a dialogue, each argument evokes a counterargument that pushes itself beyond the other argument and pushes the other beyond itself” (p: 87). Dialogue implicates communal investigation of thoughts and prospects, examination of norms and held beliefs, and exploration into the unfamiliar or mysterious to discover new interpretation or knowledge. Dialogue is done cooperatively and collaboratively.

Inquiry method used in Philosophy for Children has been proven effective in promoting students to ask higher order thinking questions (Haynes & Murris, 2011; Topping and Trickey, 2014); to share their experiences and listen to others (Spiteri, 2009; Dasi, Quintanilla, & Daniel, 2013; Barrow, 2011); to answer their own questions, ask for clarifications, reason, and justify their own views (Millet & Tapper, 2011; Ghaedi, Mahdian, & Fomani, 2015; Cassidy, 2013); and to discuss things that are relevant to students (Letseka, 2014; Jones, 2012; Youssef, 2014). These studies also reported that students’ self-confidence, satisfaction in learning and schooling had increased substantially. Students are engaged in learning when they try to formulate questions based on stimulus materials, clarifying their questions and opinions, justifying their claims which are relevant to their life. These activities not only promote behavioural engagement but also cognitive engagement. When students are satisfied with learning and schooling and their self-confidence increases, they are engaged emotionally. In philosophical inquiry method, students are given freedom to choose the topics of their interest, the stimulus materials to be used and how the sessions should be handled. Students are also given the opportunity to facilitate the sessions. This means that this method could also enhance agentic engagement.

2. Method

This study employed qualitative research method, specifically case study method. Case study is defined as “an empirical inquiry that investigates a contemporary phenomenon within its real-life context; when the boundaries between phenomenon and context are not clearly evident; and in which multiple sources of evidence are used” (Yin, 1984: 23). Specifically, this study used evaluative case study method to describe, explain, and make judgment on an intervention program (Merriam, 1988). This method is employed to evaluate an intervention program when the program is speculated to produce an assortment of results (Yin, 1992). Particularly, this method is used to describe the background in which philosophical inquiry method was applied and to explain the impact of the philosophical
inquiry method on students’ engagement in classroom and their questioning and reasoning skills. The researcher’s role in this research was as a participant observer and she conducted the teaching and learning sessions for she was a certified trainer and professional in philosophical inquiry method. The certification in Philosophy for Children was awarded by the Institute for Advancement of Philosophy for Children, Montclair State University, Newark, New Jersey.

2.1 Participant Characteristics

The participants were a class of 22 low achievers aged 12 and 13 years old from Sekolah Menengah Gombak Setia, Selangor, Malaysia in 2017. Students from this class were selected because the school classified them as low achievers based on previous exam results and they exhibited the characteristics of low achievers discussed in the introduction of this report. The school reported that students from this class were noisy, distracted, engaged in verbal arguments and rude; and they would not sit at their places, would come in and get out of class anytime they felt to do so, and would disturb their friends during teaching and learning sessions. Absenteeism was very high. The school administrator approved the request by the researcher to conduct eight philosophical inquiry sessions. However, since the school had programs that required all students to participate, we had only managed to conduct five sessions, which were enough to gauge the students’ engagement and their ability to ask higher order thinking questions and employ reasoning skills. Philosophical inquiry method was used to teach a social science subject called “civic”.

Each philosophical inquiry session followed a specific pattern. Students were given stimulus materials in the form of fictional stories, pictures, and non-fictional text; and they also played philosophical games. Students were instructed to sit in U-shaped seating arrangement and were asked to read the texts given to them aloud, one after another, a paragraph at a time. After that they were given quiet time to think and write down questions in their note books. Then, they were asked to share their questions and the teacher wrote their questions on the whiteboard. Their names were written at the end of their questions. When the stimulus material was a picture, they were asked to observe the picture and formulate questions that interest them. Each student was given a chance to ask at least one question. Afterward, students categorized the questions on the whiteboard and they chose the questions they wanted to answer first. The role of the teacher was to facilitate the sessions; and to ask more probing question for clarification and deeper understanding. Data collections were focused on the questions asked by students, the discussion, and the effort given to complete tasks given by the teacher. These were done to look for evidences of behavioural, emotional, cognitive and agentic engagements.

Further, other data collected in this study were questions asked by students based on the given stimulus materials; oral and written responses given by students in the discussions during teaching and learning sessions which were recorded in video recording and answer sheets; and observation notes taken during the implementation of the sessions. The collected data were analyzed using qualitative data analysis procedure. Students’ questions and responses during discussions; and students’ answer sheets were analyzed to determine whether students were engaged in higher order thinking or philosophical discussion; and applied higher order thinking to clarify meanings and justify their responses. Observation notes were analyzed and coded according to predetermined themes.

3. Results

The researcher and her assistant were greeted with “welcome to the hell” written on the door of the classroom. The behaviour of the students fit the descriptions given by teachers who taught this class and the descriptions reported in the literature on low achievers. The first and the second session were difficult to handle because much time was spent on managing students’ disruptive behaviours. However, students were surprised when they were told to ask questions and collaborate to answer questions because they were used to be told to stay quiet and listen to the teachers. They found this activity was so odd that they started to calm down and concentrate on formulating questions. The results of this study revealed students’ questioning skills, reasoning skills and classroom engagement.

3.1 Students’ Questioning Skills

Students are used to answering questions that they face difficulties to formulate their own questions. The main feature of philosophical inquiry method is students are given some stimulus materials and they have to ask questions based on the stimulus materials. Question is a powerful tool to stimulate thinking (Elder & Paul, 2003). Asking question paves the way to new findings and new knowledge, that is why every research project requires asking relevant questions. Thinking, which is the requirement for learning, occurs when questions are asked (Elder & Paul, 2003). In this study, there were four types of questions asked by the participants. All of the students were able to ask factual question, that is, question that assesses comprehension of the read text. Answers to factual questions can be
found in the stimulus materials. Some of factual questions asked by the participants were: Who borrowed the cauldron? Who is his neighbour? What was the neighbour’s reaction when he was told that the cauldron had given birth to a smaller pot? Where does he live? Where have you been? Who painted the picture?

The second type of question asked by the students were prediction or speculative questions. The answers to this question were not in the stimulus materials but the evidences that point toward some future events can be found in the stimulus materials. The particular stimulus materials given to these students did not contain evidences of future events but students made predictions based on their experiences. Only ten students were able to ask speculative questions. The following are some of the speculative questions asked by the students: Why did he not return the cauldron? Why did his neighbour’s wife ask for the cauldron? What would happen if he did not return the cauldron? Is it going to rain? What would happen if there is no name?

Majority of students possessed the ability to ask questions that require some research. The answers to these questions could not be found in the stimulus materials (stories and texts) but the students can find the answers by searching the internet or reading books. Most of them asked the same questions. They were curious to know the answers to the following questions: Who is Hoca? Where is he from? How far is from here to Africa? What is the difference between cauldron and pot? Why did the girl wear that kind of clothing? Who was the sultan?

The forth type of question asked by the students were questions that asked for reasoning, clarification of meaning, and deliberation on moral issues. According to Cam (2006), these types of questions are called philosophical questions. Philosophical questions are thinking questions since one has to use higher level thinking to answer these questions. The following questions were asked by the students: Is it right to take someone else’s things? Is it right not to return things we borrowed? Is it right to lie? Why do we go to school? Why names of things differ? Why do parents give us names? Why do we have names? What is name? How can we have good moral behaviour? Is it rational to believe in something that is impossible?

3.2 Clarifying Meanings, Giving Examples, Making Conclusions and Classification

It was generalized that low achieving students would have difficulty in giving opinion, asking open questions, clarifying and defining, giving examples, making conclusion, and they would not exhibit thinking ability. However, from the first session, it was evident that low achievers could ask higher order thinking questions and engage in higher order thinking discussion. In response to the topic ‘name’, students were able to ask four thinking questions and deliberate to answer those questions. The noisiest boy responded to the question “does anybody have to have name?” by answering, “Yes, we have to have names. If not, we could not differentiate people and it will be difficult to call people…when we call hey! All who are present will answer…”; “And this is confusing”, another boy added and the whole class agreed; and “Knowledge would not be possible because knowledge is recorded using words or names of things”. Two girls added that “we cannot communicate if there is no name…if things are within our sight, we can just point to the things…but we cannot communicate through telephone”. This suggests that the students can reason well and can foresee what would happen if there is no name, namely ‘confusion’, ‘no knowledge’, and ‘cannot communicate’. They also entertained the possibility of determining a person’s personality by his or her name. After giving examples of few of their friends who had the same name, they concluded that names could not tell one’s personality because their friends had different personalities even though they shared the same names. This is another evidence that low achievers can think and strategize to find answers. They also concluded that they could tell one’s gender, race, and religion from one’s name.

To assess their ability to define a concept, the students were given a scenario in a furniture shop where they wanted to buy a table but they did not know the word ‘table’ and there was no table in the shop. The students explained that they had to describe the features of the table. Other students added that they should also describe the functions of the table. At the end of this discussion they concluded that the word ‘table’ represent a thing with certain physical characteristics and functions. They further concluded that name of an object “conveys features and functions of the object (melambangkan ciri-ciri dan fungsi benda itu)”. This means that low achievers can articulate their ideas well; make logical conclusion; and clarify meaning of a particular word.

During the third session, students were asked to say a word out loud one by one. Then, the words were written on the whiteboard. There were a total of 22 words and students were instructed to classify those words and name each class. The words were bridge, house, diamond, chair, desk, watch, fan, pencil, pot, motorcycle, lamp, eraser, spoon, bicycle, window, pen, wok, door, book, shoe, bag and water bottle. Students were asked to discuss in groups and come up with their classifications. The students selected their own group members and they grouped into six groups. Three groups classified the words into six categories and the other three groups grouped the words into seven categories.
The categories were ‘things for school’; ‘kitchen tool’; ‘vehicle’; ‘things in classroom’; ‘jewellery’; ‘constructed things’; ‘stationeries’; ‘parts of building’ and ‘hanging things’. This is clear that these low achievers could identify similarities and differences of those words and classify them accordingly. They moved from specific instances to generalized conclusion. In other words, the students were able to do simple inductive reasoning.

Students were given a story in the fourth session. In this session, there was not enough time for thorough discussion. Students read, asked questions and wrote their questions on the whiteboard and classified the questions according to similar themes. The discussion was done during fifth session. It was surprising that the students were able to formulate some lower order and higher order thinking questions. Lower order thinking questions assess comprehension of the story; and answers can be found in the story. Higher order thinking questions assess reasoning skills and answers could not be found in the story. They also noticed some cognitive dissonance present in the stimulus material, that is, the story was about Hoca who told his neighbour that his big cauldron had given birth to a small pot. They wondered how someone could believe that an inanimate object could give birth and die. They came to a conclusion that the neighbour actually did not believe the story but since he gained extra pot because of the story, so he did not refute the story. The students discussed the moral issue of borrowing something from friends and neighbours and would not return them; and the issue of taking someone else’s things through deceit. Even though these students were noisy and disruptive but they understood that it is wrong for people to lie, take others’ belongings, and hurt others’ feelings.

In conclusion, the findings revealed that these low achievers could articulate their views well, clarify meaning, give examples, make conclusion from earlier premises, compare, contrast and classify things, make inductive reasoning, and justify actions based on what is right and wrong. The data also indicated that the students were able to collaborate in small group discussion. This finding is similar to the finding of a study conducted by Jenkins and Lyle (2010). They found that low achievers could formulate higher order thinking questions; use evidence and examples to elaborate and support opinions; evaluate; and they also could think about their own thinking. Other studies conducted by Spiteri (2013), Youssef, Campbell and Tangen (2016) and Gorard, Siddiqui and See (2016) also reported the same findings.

3.3 Behavioural, Emotional, Cognitive and Agentic Engagement

Low achievers are viewed as problematic students who are not interested in listening to teachers and doing and completing classroom tasks. However, when the 22 low achievers from this particular school were given stories to read, topics that were relevant to them to discuss, the data showed that they were engaged in discussion and they had completed classroom tasks. Evidences of behavioural engagement were they responded to questions asked by the teacher; and they completed the tasks given to them, that is, they were focused in group discussion to write questions and to classify words. Moreover, the students were known to be the most disruptive students who always walked in and out of classes as they pleased, but during philosophical inquiry sessions, the stayed put in their seats for 50 minutes to complete the tasks given to them. This was the greatest achievement.

Other evidences of behavioural engagement included the students’ participation in discussions and they were not distracted by other things such as looking outside of the classrooms, chatting with friends, and playing games. They listened to and followed teacher’s instruction and would ask questions to confirm their understanding. Surprisingly, they also listened attentively while their friends were reading and they listened to their friends’ comments and reasoning; reacted by agreeing or disagreeing; and sometimes they laughed at their friends’ funny responses. Their body language also indicated that they were focused and they displayed good mannerism.

Low achievers are still stereotyped as those who hate school and doing school work. However, this study proved that low achievers manifested positive emotion during philosophical inquiry sessions. The evidences indicated that they were emotionally engaged. They enjoyed reading stimulus materials given to them and the game they played in class. They responded with chuckles when they came across funny stories and when their friends made funny remarks. Further, they anticipated future sessions by saying “please come again next week, we will be waiting for you”. They also rewarded themselves with a big applause when they were praised for good behaviour, that is, when they focused and showed interest in completing classroom tasks. They reminded each other to speak politely because they used to be rude when speaking with each other. In addition, they reminded each other to listen to teachers and keep their voices low.

As for cognitive engagement, there was no definite evidence that the students had employed different and effective learning strategy or study skills. Five sessions (a total of 4.5 contact hours) were too short to assess cognitive engagement. However, this study had shown many evidences on their cognitive involvement in responding to the
stimulus materials and discussions. More time is required to assess low achievers’ cognitive engagement. This study also discovered that students asked questions regarding why and how the class was handled. On the second session, they asked reasons for selecting their class and asked permission to suggest some ideas. They asked if they can propose games that they would like to play and activities they would like to do in class. Besides asking questions regarding stimulus materials, these low achievers had demonstrated agentic engagement when they showed interest to give their inputs in teaching and learning sessions.

4. Discussion
This study has revealed a deeper insight of the value of philosophical inquiry method in promoting classroom engagement and supporting low achievers’ cognitive development. It has shown that dialogues between students and teachers and students and students allow low achievers to demonstrate their ability to ask higher order thinking questions, to use reasoning skills, to engage in question-and-answer sessions and to complete classroom tasks normally associated with good students.

When low achievers were given the opportunities to formulate questions and voice out their opinions, they were engaged in classroom activities and used reasoning skills to deliberate on issues related to their life and experiences. The students in this study reflected on their own experiences to answer questions and make conclusions especially on issues that they can associate with. The quality of their questions and reasoning and the intensity of their focus in completing classroom tasks indicated that teachers have to reassess the capability of these low achievers specifically and other low achievers generally. There is a value in looking at different ways of evaluating students’ performance so as not to label students as low achievers for not doing good in standardized exams.

Through participation in doing philosophical inquiry, the students demonstrated behavioural, emotional and agentic engagement and reasoning skills. The findings support Slakmon and Shwartz’s (2014) and Gillies’ (2015) conclusion that low achievers’ participation in dialogic pedagogy promotes classroom engagement. Furthermore, the findings corroborate Haynes and Murriss’ (2011) and Topping and Trickey’s (2014) assertion that philosophical inquiry method promotes students to ask higher order thinking questions. This study also revealed consistent outcomes with a study conducted by Jenkins and Lyle (2010) that low achievers’ involvement in dialogues stimulate reasoning skills. A move from one-way communication in classrooms and unvalued opinions of low achievers, dialogue has given them the opportunity to speak their minds; and empowered the students to realize that their questions and opinions have value. This in itself is motivating for children as well as adults like to be appreciated.

This study advances some pertinent issues in the effectiveness of school and national examinations which categorize students as ‘good’, ‘average’ and ‘poor’. These labels affect teachers’ expectation of students which may lead to actions that are detrimental to students’ progress. Results of examinations are considered as accurate measurement of a student’s ability. As a result, the student is given a curriculum that may not be consistent with their intellectual ability; and may be neglected by teachers and school administrators. In relation to assessing students’ achievement, this study recommends looking into the possibility of incorporating qualitative description of students’ voices to complement the prevailing quantitative method of assessment.

This study suggests that when students, who are categorized as low achievers based on examination results, are given opportunity to voice out their opinions and their opinions are valued in dialogic pedagogy, they can engage in classroom activities and demonstrate the ability to use reasoning skills. This study attempted to look for indicators of classroom engagement and reasoning skills used among low achievers in philosophical inquiry sessions. Therefore, this study postulates that a prolong application of philosophical inquiry method of teaching could enhance low achievers’ higher order thinking skills and engagement with school. The findings of this study only describe the students who were involved in this study. More studies should be conducted to generalize that philosophical inquiry method is indeed effective in enhancing higher order thinking skills and promoting classroom engagement among low achievers. Further research, preferably longitudinal study, should also be done to evaluate the impact of philosophical inquiry method on low achievers’ academic achievement.

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References


