Enhancing primary students’ understanding of social studies through the Jigsaw approach

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ABSTRACT

This study aimed to examine the implementation of the Jigsaw approach in teaching primary social studies in Brunei Darussalam. The topic selected for this study was on ‘The Reign of Sultan Omar Ali Saifuddien III 1950 – 1967’. The sample consisted of 25 primary students in a Year 6 class. The methodology of this study was an action research. Among the instruments used were tests, observations, interviews, and students' journals. The findings showed that the students' test results had improved, indicating the effectiveness of the Jigsaw approach in teaching social studies. It was observed that there were positive developments in students’ communication skills as well as their participation in the class activities. The students’ motivation to learn was mostly positive as they enjoyed learning cooperatively in the given activities. However, the challenge of implementing this Jigsaw approach was the role of the teacher as a facilitator in this approach. Future research should continue to examine the different ways of teaching social studies that could involve students’ active participation in the teaching and learning process.

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1. INTRODUCTION

In realising the country’s vision to produce highly skilled and productive workers, the Ministry of Education in Brunei had introduced social studies as the new curriculum subject in the primary schools. In 2009, this subject was established in the primary curriculum to replace the subjects of Geography and History. The main objectives of social studies are to develop primary students’ critical thinking as well as their knowledge and understanding of social and cultural aspects that will help to prepare them to be future active and global citizens [1]. In order to achieve these objectives effectively, teachers are expected to acquire new sets of skills in teaching and learning that emphasise on producing students, instilled with ‘MIB’ (translated as Malay Islamic Monarchy) values, with the 21st century skills and competencies [2-5]. Therefore, the purpose of this study was to investigate on the effectiveness of the Jigsaw approach in social studies lesson. The focus of this study was on the development of primary pupils’ content knowledge in social studies. Hence, this study would attempt to answer the following research questions: How was the Jigsaw approach effective in teaching social studies lessons? What were the challenges of using the Jigsaw approach in social studies lessons?

Previous studies had reported that the use of the Jigsaw approach in teaching could be effective in enhancing students’ learning [6-8]. The Jigsaw approach could be effective for aiding students’
comprehension and students’ motivation to learn (ibid). Students’ achievement in learning as well as students’ retention level had shown improvement during the implementation of the Jigsaw approach [9]. Majority of the students’ responses were found to be positive as they found that the Jigsaw approach facilitated their understanding of the subject content [8]. However, some argued that this approach was time consuming and some students might not want to work in groups as they were used to the traditional way of learning [7, 10].

The main characteristic of the Jigsaw approach is for the students to complete the learning task given to their own groups [7]. In this Jigsaw approach, the students would be categorised into two groups: the original and the expert. The students would first be gathered in the original group where the teacher would assign them different tasks. Then, the students with the same task would be gathered together to form a new group called the expert group. The students would need to go back to the original group once they finish their discussion in the expert group. Once they are back to their original group, the students would then be asked to share what they have learned in the expert group with the rest of the members. Findings had shown that the students in the expert group had helped the weaker students in the group [6, 7]. Hence, the use of the Jigsaw approach in teaching had helped improved students’ self-esteem and self-confidence in learning [10].

2. RESEARCH METHOD

The methodology used in this study was an action research. The action research was carried out in three phases: the planning phase; the action phase; and the reflection phase [11]. In this study, the first author was the teacher who taught the students by using the jigsaw approach in their social studies lesson. The social studies topic taught in this study was on ‘the successful achievements of the 28th Brunei ruler, Sultan Omar Ali Saifuddien III in developing Brunei between 1950 until 1967’. The study was conducted in three different lesson sessions. The duration of each session was 25 minutes. During the learning activities, the students were divided into groups of five. However, this study had a limited number of participants as it only involved one class that comprised of 25 primary students, aged between 11 and 12 years old, from one government primary school in Brunei. Due to the small number of the participants involved, the findings could not be generalized.

Data collected for this study were the pre- and post-test, semi-structured interviews, observation of students’ participation in learning activities, students’ learning activities and students’ reflective journals. The pre- and post-tests were constructed to test and assessed the students’ learning outcomes. Throughout this study, the ethical considerations were prioritised in this study. The students were only involved as the participants when their parents gave their consent. The identities of the school and students were kept confidential throughout the research.

3. RESULTS AND DISCUSSION

3.1. How was the Jigsaw approach effective in teaching social studies lessons?

3.1.1. Development of students’ content knowledge in Social Studies

Based on the data obtained, it was found that by incorporating the Jigsaw approach in social studies lessons, the students were able to develop their conceptual understanding of the content knowledge of social studies lesson. The overall performance for all the 25 students showed improvement of their performance after the introduction of the Jigsaw approach into their social studies lessons. On average, the post-test marks reflected that the students were able to show good conceptual understanding and that their content knowledge of the lessons were much better when the Jigsaw approach was introduced to them, compared to lessons without the use of the Jigsaw approach.

Table 1 below showed the students’ results for their pre- and post-tests. The table showed that there were significant improvements in the students’ post-test results. Although the students were familiar with the 28th Brunei ruler, the students’ pre-test results had shown that they were not able to answer the questions in detail. Only four students passed in the pre-test (with one student scored 75 percent and others scored 50 percent) and the other students only managed to score less than 44 percent. However, after the implementation of the Jigsaw approach in social studies lessons, the students’ results showed marked improvements. In the post-test, all the students passed. Student 4 and 16 with 94 percent scored the highest mark while the lowest mark was 50 percent scored by Student 18, 21, 24 and 25.
In the pre-test, the students struggled to provide accurate answers for their pre-test questions. Many of the students were only able to get low marks for their answers as shown in Table 1. Generally, they had difficulties in listing out the accomplishment of the 28th Brunei ruler. The answers that the students gave were vague and lack of clarity. Hence, before the implementation of the Jigsaw approach, majority of the students were found to demonstrate a lack of understanding of social studies content. This was shown in Table 2 where the students’ pre-test answers were vague and not clearly defined.

<table>
<thead>
<tr>
<th>Student Number</th>
<th>Pre-test (%)</th>
<th>Post-test (%)</th>
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<tbody>
<tr>
<td>1</td>
<td>50</td>
<td>63</td>
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Table 2. Work sample of students’ pre-test answers

<table>
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<tr>
<th>Question 9</th>
<th>Response</th>
</tr>
</thead>
</table>
| List out the accomplishment of Sultan Omar Ali Saifuddien III in Brunei’s development? | Student A
| The accomplishment of Sultan Omar Ali Saifuddien III was our nation became a modern city |
| Student D | The accomplishment of Sultan Omar Ali Saifuddien III was modernizing the city |

However, after the incorporation of the Jigsaw approach into their social studies lessons, this study found that most of the students had shown great improvement in their responses to the post-test questions. Examples of students’ answers during the post-test question were shown in Table 3. The answers showed significant improvements in the students’ knowledge of social studies where the students were able to remember the content learned during the Jigsaw approach. This was a contrast to the pre-test answer scripts, which reflected on their weakness in understanding of the content.

Table 3. Work sample of students’ post-test answers

<table>
<thead>
<tr>
<th>Question 9</th>
<th>Response</th>
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| List out the accomplishment of Sultan Omar Ali Saifuddien III in Brunei’s development? | Student A
| Sultan Omar Ali Saifuddien built a gas plant in 1955. He set up the Brunei Teacher Training Centre (BTTC) in 1956, a religious school in 1958, and the Brunei Malay Regiment in 1961. Those were the accomplishment of Sultan Omar Ali Saifuddien III. |
| Student D | He made our country became a modern Brunei. Sultan Omar Ali Saifuddien III built highways and Teacher Training Centre. He set up health and welfare services, and an army to defend our country. |

3.1.2. Improvement in students’ oral communication skills

Before the implementation of the Jigsaw approach, it was observed that the teacher had difficulties in asking the students to speak in class and to participate in any of the lesson activities. However, during the Enhancing primary students’ understanding of social studies through the Jigsaw ... (Zarinah Mahari)
incorporation of the Jigsaw approach, majority of the students were observed to be discussing the answers with each other and presenting their ideas to their group members as well as to the class. Thus, the Jigsaw approach had helped to improve the students’ communication skills and encourage the students to interact with each other during the lesson activities.

3.1.3. Increase in students’ motivation towards learning

In general, it was found that majority of the students perceived the lessons as enjoyable when the teacher implemented the Jigsaw approach in their social studies lessons. During the lessons, it was observed that the students had enjoyed themselves during the activities as they showed positive participation in the group work activities. After the lessons, when the students were interviewed, most of the students said that they preferred learning activities that required them to work in teams. Majority of the students also commented that since they were comfortable with their teammates, they then felt confident in presenting their answers to the rest of the team members. Hence, the findings had shown that by incorporating the Jigsaw approach in lessons, the students were motivated to learn social studies. Figure 1 shows an excerpt of a journal entry described by one student after the Jigsaw approach lesson.

3.2. Challenges of using the Jigsaw approach in social studies lessons

Though the findings showed that the Jigsaw approach was effective in improving students’ motivation to learn and their understanding of the subject matter, the change of role of the teacher from the traditional role to the facilitator could be the main challenge of implementing this approach. This finding is similar to other findings where the teacher became the facilitator in students’ group activities [12-14] and [15]. Firstly, the teacher had difficulties in grouping the students. It was observed that the teacher was not familiar with the students’ personalities and abilities. However, findings from other studies had shown that for any teaching approaches to be effective, students’ personalities play an important role in motivating them to accomplish their tasks during learning [8-10, 16, 17]. Secondly, the teacher found the Jigsaw approach as time consuming which was similar with other findings [7, 8, 10, 18]. It was observed that the application of the Jigsaw approach in social studies lesson was conducted in more than one session of the lessons. Yet, the Jigsaw approach was very effective in encouraging cooperation among the students [8]. Thirdly, the researchers found that although during the interviews, most of the students mentioned that they had enjoyed learning during the Jigsaw approach, yet some of them mentioned that they were confused. They said that the class was too noisy hence they could not hear the teacher’s instructions and explanations properly, which then led to confusion. The students also added that they were not able to explain thoroughly their findings to the rest of the members in their group. Some reported that the explanations were too fast, hence caused confusions among the team members. Finally, it was found that majority of the students were not fond of their friends whom did not participate in the group work activities. This finding was similar to other findings where ‘free riders’ were common in students’ group work activities [2, 4, 10, 19, 20].

Figure 1. An excerpt of a journal entry
4. CONCLUSION

In conclusion, the findings from this study had provided valuable insights into the use of the Jigsaw approach in the teaching of social studies for primary students. The study had highlighted the benefits as well as the challenges faced in conducting the Jigsaw approach in social studies lessons. From the research findings, the benefits were such as the improvements of the following: students’ cognitive skills; students’ communication skills; and students’ participation in the class. These findings could be seen from the samples of the students’ answers, the students’ scores in the pre- and post-test, the lesson observations and the students’ interview. However, there were some challenges while conducting this study such as the students’ grouping, time constraint and students not participating in the learning activities.

Future research should continue to examine the different ways of teaching social studies that could involve students’ active participation in the teaching and learning process. It is recommended that future study should involve a large number of participants and more topics of social studies to be included to allow a more reliable data collection. It would also be much better to examine the effectiveness of using the Jigsaw approach in secondary school students and how it can benefit other subjects apart from social studies subject.

REFERENCES


Enhancing primary students’ understanding of social studies through the Jigsaw ... (Zarinah Mahari)
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