4C-Based Cooperative Learning Model Through Lesson Study Activities on Indonesian Course for Elemantary School

Denna Delawanti Chrisyaranı*, Dwi Agus Setiawan
Elementary Teacher Education Program
Universitas Kanjuruhan Malang
Malang, Indonesia
*dennadela@unikama.ac.id

Abstract—The implementation of Indonesian Language of Primary School course should be directed to the development of 4C (Communication, Collaboration, Critical Thinking, and Creativity). To create effective and interesting learning process, teacher must direct the learning activity by implementing Cooperative Learning (Picture and picture, Jigsaw, Demonstration, and Student Teams Achievement Division (STAD)), Think Pair Share (TPS), and Role Playing. This research employed Lesson Study activity consisting of three stages as follows: Plan, Do, and See. The research activity consisted of cycle V. Based on the results of Lesson Study activity from Cycle I to Cycle V, students’ active involvement increased. At the beginning, only students with higher abilities actively involved in the learning process. As the activities went on, almost all students actively involved. The use of the cooperative learning model in each cycle by paying attention to the implementation of 4C can help students to improve their language skills (listening, speaking, reading). The implementation of Lesson Study with the 4C-based cooperative learning model allows students to be actively involved in learning and moreover, the lecturers are able to improve the quality of learning.

Keywords—Indonesian language, lesson study, 4C

I. INTRODUCTION

The quality of education is generally associated with increased achievement, renewal of the learning process, and skills achieved. A 4C skill (Communication, Collaboration, Critical Thinking and Problem Solving, and Creativity and Innovation) is a skill that is identified as a 21st century skill and it is essentially prominent to achieve the objectives of the 2013 curriculum [1–4]. Through 4C skill, students actively establish a certain understanding, skills, and attitude. Students no longer absorb and verbally memorize the knowledge conveyed and delivered by the lecturer (transfer of knowledge) yet, they process the information obtained and form new ideas.

The course of Indonesian Language for Primary School allows students to acquire language skills. There are four language skills that must be acquired by students, specifically listening, speaking, reading and writing [5]. These four skills require to be acquired and understood by students as pre-service primary school teachers, therefore, there will be no misconceptions or miscomprehension when delivering the lesson content later when they serve as an in-service teacher. Indonesian Language learning for primary school is already based on student-centered approach. However, in its implementation, there are still some students who are less active during the learning process. In addition to being based on student-centered approach, Indonesian Language subject for primary school requires to lead to the development of 4C skill (communication, collaboration, critical thinking, and creativity) [6,7].

Communication skills are one of the 4C skill components and it is exceptionally important to be used in an individual’s daily life [8]. Communication skills, in specific, constitute as the delivery of thoughts, either verbally or in writing, using clear sentences, conveying orders clearly. Lecturers are able to train students’ communication skills through demonstration activities of language skills. Collaboration activities are able to be developed through group discussions [9]. Students can collaborate with peers through group discussions of the assignments given.

Learning can be effective and enjoyable by using cooperative learning [10]. Through cooperative learning model, it helps students process information that occurs in learning [11]. There are several types of cooperative learning models, specifically Picture and picture, Jigsaw, Demonstration, Student Teams Achievement Division (STAD), Think Pair Share (TPS), and Role Playing.

In addition to the application of models that are able to activate student’s engagement, there is a need for collaboration between lecturers. Lesson Study is a lecturer coaching program that has been carried out in the Primary School Education study program to establish a learning community. Lesson study is expected to improve the professional competence of lecturers and student achievement [10,12].
Lesson study innovations that will be developed is a lesson study with a 4C-based cooperative learning model (communication, collaboration, critical thinking, and creativity). The 4C-based cooperative learning model began with the lecturer giving apperception to students to find out their initial abilities. Lecturers gave problems to students to solve, students’ 4C abilities were developed during discussion and conveyed the results of the discussion. Accordingly, the learning process can be focused on solving the problems given to students. The purpose of this study is to determine the results of implementing 4C using cooperative learning models in Indonesian subjects.

II. METHODS

This research uses action research Class (PTK) through lessons study. The approach in this research is qualitative descriptive approach because of data collected in the form of descriptive and narrative data employed. The object of research was the 2018 class of PGSD students. Lesson study was carried out in three stages, specifically: the stage of planning (Plan), the stage of implementation (Do), and the stage of reflection (See) [13–16]. PTK planning stages integrated with the LS step, namely the plan. Stages of Acting and Observing at PTK integrated with LS steps, namely do, and the reflect stage in the PTK is integrated with the LS step, namely see [17]. The type of data used in this research is qualitative data. The qualitative data is the result of observation lesson study and student responses to methods learning. The instrument used in this research, namely the learning implementation sheet, Observation sheet of the implementation of lesson study.

The first stage was planning (Plan). At this stage, the Lesson Study team for the Indonesian Language of Primary School course conducted a discussion about the lesson plans that would be delivered to students. This activity was carried out with the aim of determining appropriate models, methods, media, and teaching materials that could be used in the learning process. At the stage of planning, the team drafted a chapter design, lesson design, Lesson Plan, Student’s Worksheet, and observation sheets. The second was the stage of implementation (do). At this stage, the team of lecturers in the Indonesian Language of Primary School course conducted activities in accordance with the job desks that have been determined at the stage of planning. The assignment was divided into observers and model lecturers. The activities in the stage of implementation were by doing apperception, forming groups, giving assignments that concern on language skills development (reading, listening, writing, and speaking). group discussions, presentations, providing learning material enrichment, giving motivation to students, and concluding the whole activities carried out.

The third stage was the stage of reflection (See), which was to reflect on the learning process that has been carried out. During the stage of reflection, the lecturer who teaches the subject discussed the observation results. The results of the observations were discussed to find out weaknesses, mistakes and student problems during the learning process and to find solutions to improve the learning activities in the next cycle.

III. RESULTS AND DISCUSSION

The implementation of the Lesson Study activities that have been carried out in the Indonesian Language for Primary School course from Cycle I–VI was going according to predetermined plans. In the Cycle I, the activity allowed students to discuss the learning material of applying image observation skills. In the Cycle II, the activity invited students to perform listening activities to articles. In the Cycle III, the students were invited to perform a speech. In the Cycle IV, the students were invited to improve speaking skills by presenting a storytelling activity. In the Cycle V, it trained students’ reading skills through read aloud technique. In the Cycle VI, it trained students’ ability regarding reading comprehension. Lesson Study activities began with planning (plan), and continued by implementing (do), and concluded by carrying out a reflection (see). The implementation of this learning aimed at increasing knowledge that leads to critical and creative thinking, collaborative, communicative, responsibility, and cooperation among students. In each cycle, it started by performing a planning stage. This planning constituted activities in making chapter design, lesson planning design, lesson design, student’s worksheet, and observation sheet of Indonesian Language for Primary School Course.

On implementation stage in Cycle I (see Fig. 1), the activity was an Image Observation. The treatment in the first cycle started by assigning assignments to students, followed by learning discussions and continued by sharing between groups.

![Image](image-url)

Fig. 1. The process of the implementation stage (Do) during Indonesian language for primary school course

During the activity in Cycle I, it employed picture and picture learning model. When performing the stage of reflection (See Fig. 2), the lesson study teams discussed regarding the activity carried out in the stage of implementation. Based on the observation carried out by the appointed observers, it was observed that the group division made by teacher was too big and the discussion was ineffective. There needs to be a proportionate division of the group, besides that it also monitors the participation of all group members in collaboration [18].
The solution offered to improve learning activities in Cycle II was a consideration of proportional group member division by teacher to create an effective discussion process. Based on the observation on the model lecturer during the implementation stage, it was found that the learning activities carried out were enjoyable. During the learning process, students engaged in the activity of arranging pictures and composed it into a complete story. In addition, it was found that the preparedness of the model lecturer in planning the learning activity was good.

In Cycle II, the model lecturer employed Jigsaw learning model which comprised of two primary activities: group discussion and sharing between groups (See Fig. 3). In Cycle II, the learning material delivered was observing an article.

During the observation to the model lecturer, it was found that the learning activity carried out, reviewing article, was able to train and advance students’ concentration and critical thinking. In addition, it was found that Jigsaw learning model used by the model lecturer during lesson study was effective. The group division was efficient, and it allowed each student to take an equal part.

In Cycle III, the model lecturer employed demonstration learning model which consisted of three primary activities: demonstrating (delivering a speech), group discussion, and sharing between groups (shown in Fig. 5).

During the stage of reflection (See), it resulted an observation result based on the implementation stage of lesson study (Do). Based on the observation, it was found that students were not able to improve their speech since they were not accustomed to. In addition, when delivering their speech, most students were not focused since they spent too much time...
to memorize the content of their speech. Therefore, based on the discussion results concerning the implementation of Cycle III, it requires an improvement on the preparation of students’ performance in delivering a speech to improve communication skills. It also needs to reinforce individual responsibility when paying attention to the individual assignment to make the upcoming Cycle IV can run well [19]. Furthermore, based on the observation to the model lecturer, it was found that the model lecturer was able to provide an enrichment to the students and were able to provide a proper conclusion based on the group finding. The learning model employed was also able to train students’ speaking skill. Last but not least, the preparation of students related to speech text was good since they prepared the speech text in their home.

During the implementation of Cycle IV, the learning process was carried out by using STAD learning method with multimode approach which consisted of discussion, question and answer session, role playing, and providing individual assignment. The process is shown in Fig. 6.

![Fig. 6. The implementation stage (do) of cycle iv during indonesian language for primary school course.](image)

Based on the results of the stage of reflection (See), it was found some drawbacks during the stage of implementation as follows: when performing a storytelling, students were not maximum in representing the role that they needed to demonstrate. It was also found that there were some students who took less role. Furthermore, some of the stories prepared by students were not in accordance with the scenario. Providentially, the model lecturer has been able to encourage students to actively involve in the learning activity through role playing game. In addition, some students have been able to improve during storytelling performance since students’ speaking ability has been trained during the implementation of Cycle IV. Cooperative learning has benefits for both students and teachers. Such as helping students to make progress in developing social and communication skills For teachers, you can to pay attention and reflect on student learning [19].

In Cycle V, the model lecturer implemented the learning process by employing STAD learning model with multimode approach which consisted of discussion, question and answer session, demonstration, and individual’s assignment. Based on the results in the stage of reflection (See), it was found that the text used for storytelling, poem reading, and dialogue were similar with the text used by the lecturer. Thus, the contents were less varied. The students did not use the text provided in the student’s worksheet. During the presentation, the students focused more on the text presented in the slide, thus the students had poor interaction with the audience. Based on the discussion on the reflection stage, it requires an improvement for the Cycle VI to create more satisfactory learning process to achieve learning objectives.

![Fig. 7. The reflection stage (See) of cycle V during Indonesian language for primary school course.](image)

From the reflection during Cycle V (see Fig. 7), students’ performance in reading the text was good since they were not demanded to memorize the content of the text. In addition, it was also found that the student’s collaboration in group work has been effective and the distribution of assignment has been efficient. Furthermore, when examining the preparation of the model lecturer, the model lecturer has demonstrated good preparation before carrying out learning activity. At the end of the learning, the model lecturer also provided an enrichment and conclusion of the lesson. STAD has the principle that students work together and are responsible for group learning as well as their own learning, and have learning alignment goals all group members [20].

As shown on Fig. 8, in Cycle VI, the model lecturer implemented Think Pair Share learning model with multimode approach which consisted of brainstorming, discussion, individual’s assignment, question and answer session, and presentation.

![Fig. 8. The stage of implementation (Do) and reflection (See) in cycle VI during Indonesian language for primary school course.](image)

Based on the observation carried out by the appointed observers, during the implementation stage (Do), the learning
activity was properly applied, and it was not found a crucial
issued. The learning activity carried out was in accordance with
student-centered approach and it was effective. During Cycle VI,
the preparation by the lecturer was maximum and suitable.
The model lecturer provided a systematical direction to
students before continuing to the core lesson. Thus, it offers
students a chance to improve the reading ability. Using think –
pair – share helps teacher to increase student engagement and
create active study groups collaboratively. Increased student
engagement has a direct impact on learning outcomes [21].

Furthermore, based on the summary of lesson study activity
consisting of the stage of planning, the stage of implementation
(do), and the stage of reflection (see) [12,16]. Each learning
activity implemented in the lesson study was started by the
stage of planning. The stage of planning offers the model
lecturer to make a plan and design learning instrument such as
Lesson Plan, Chapter Design, Lesson Design, Student’s
Worksheet, and Observation Sheet. The stage of planning
implemented by the model lecturer has been in accordance
with the requirements and taking into consideration students’
characteristics and initial condition. The planning was created
and taking into account some important aspects for students
such as cooperation, confidence, language skills based on
critical thinking ability, creative thinking, collaboration, and
communicative [22].

The next activity was the stage of implementation (do). The
stage of implementation was started by initial activity of lesson
activity. During this stage, an appreciation was given to
connect the lesson contents to be learned with students’
experiences or previous learning acquired. This stage allowed
the lecturer to deliver learning content and learning objectives.
In addition, the lecturer divided that students into some groups
and gave assignments to students that lead to language skills
development. In this activity, students took an active
engagement because the learning activities carried out allowed
students think critically, creatively, collaboratively, and
communicatively [3,23]. This activity was carried out to
prepare the students to acquire some important soft skills that
are beneficial for them later in the community.

The implementation learning activities are proven to
increase learning activity in the classroom. In addition to
implementing 4C, the lecturer also applied a cooperative
learning model. Cooperative learning leads to the formation of
small groups (4-6 students) that allow students to discuss, solve
problems, and complete tasks in groups to achieve common
goals. Cooperative learning includes a learning model in which
students work in small groups (generally 4-6 students) [24]. In
cooporative learning students have the opportunity to ask
questions, answer, give suggestions, and critically reflect on
ideas [18,22].

The final activity after the learning process is reflection
(see), where the observers and the model lecturer gather to
discuss the results of the observations. The reflection activity
reviewed the input to the model lecturer about the learning
process and also student activities during the learning process.

Therefore, the input will be beneficial for achieving better
goals in the further learning [25].

IV. CONCLUSION

The implementation of Lesson Study during Indonesian
Language for Primary School course has generally run well
based on the stages which consisted of the stage of planning,
the stage of implementation, and the stage of reflection. In
addition, it was found that the students’ activities and
involvement in the learning process were increasing. The use
of cooperative learning in each cycle by paying attention to the
application of 4C was able to help students improve language
skills (listening, speaking, reading and writing). Students were
increasingly responsible for collaborating in Indonesian
Language for Primary School course. The suggestions given
were the need for continuous Lesson Study workshops (chapter
design and lesson design), thus, the lecturer team could
improve the quality of learning.

REFERENCES

to teach science with technological pedagogical content knowledge,”
pembelajaran kimia.” Jurnal Inovasi Pendidikan Kimia, vol. 13, no. 1,
2019.
comment pada mata pelajaran pai dan budi pekerti (Penelitian di SMA
Negeri 26 Bandung),” Jurnal Pendidikan Islam Rabbani, vol. 2, no. 1,
2016.
“Identifikasi Kesiapan LKPD Guru Terhadap Keterampilan Abad 21
Pada Pembelajaran IPA SMP,” Jurnal Ilmiah Profesi Pendidikan, vol. 3,
no. 2, 2019.
indonesia berkonteks multikultural,” Litera, vo, no. 1, 2013.
classrooms: Teachers’ understanding of practice and pedagogy in
framework for the 21st century,” Thnk. Ski. Creat., vol. 12, pp. 43–52,
2014.
[9] H. Alrayah, “The Effectiveness of Cooperative Learning Activities in
Enhancing EFL Learners’ Fluency,” English Lang. Teach., vol. 11,
no. 4, pp. 21, 11, vol. 21, 2018.
learning into the combined blended learning design model: Implications
for students’ intrinsic motivation,” Int. J. Mob. Blended Learn., vol. 11,
from a randomised experiment,” Act. Learn. High Educ., vol. 17, no. 1,
design features for supporting collaborative teacher learning,” Teach.
lesson study: The Canadian ‘Math for Young Children’ project,” ZDM -


