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# Developing Beach Ball Group Investigations Cooperative Learning Model to Improve Social Skill in Speaking Course

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Abstract. Speaking course at higher education has worthy responsibility and becomes pivotal foundation for the development of personal com 6 nication, intellectual, emotional, cultural, and social. This research aimed at developing Beach Ball Group Investigation (BBGI) cooperative learning model to improve use in akill and investigated 2 the effectiveness of this model in speaking course. The research design was Research and Development (R & D). The data were collected through questionnaire, interview, assessment she? of social skill observation, and multiple choices. The data analysis employed t-test and n-gain to test the product effectiveness. The research result concluded that BBGI ecoperative learning model was effective in improving student's social skill. It was indicated 19 coefficient value of tratations which was greater than that of tables as well as the difference between pre-test and post-test (n-gain) which was in good category.

Keywords: Beach Ball Investigation Group, Social Still, Cooperative Learning, Model, Development, Speaking.

# 1. INTRODUCTION

Speaking course at higher education has worthy responsibility and becomes pivotal foundation for the development of personal communication, intellectual, emotional, cultural, and social. Students are expected to develop responsibility in communicating, thinking, behaving, and acting. In addition, a speaking course functions for developing speaking abilities in terms of knowledge, value, attitude, and social skills in daily life. It also aims at growing pride a 16 ove to society development from the previous to the recent era. The use of a learning model during the teaching and learning process is very beneficial to lecturers and students [24]. To lecturers, a learning model can create an active, interactive, and motivated learning activity to express their ideas based on the learning materials being discussed. By a learning model, both students and lecturers can achieve the learning objectives. The goal of classroom learning is emphasized on the student's behavior or performance as the output. It also aims at showing that students have conducted learning activity. The duties of learning 7 to educate and guide students in learning as well as preparing them to live in society. According to Chance [1], speaking is the process of brilding and sharing meaning through the use of verbal and non-verbal symbol, in a variety of context. Haebner states that speaking is a skill used by someone

12 SEWORD FRISSER 2019, April 17, Surakarta, Indonesia Copyright © 2019 EAI DOI 10.4108/sai.27-42033.2286784 in daily life communication whether at school [10]: The skill is acquired by much repetition; it is primarily a neuromuscular and not an intellectual process.

In the context of speaking learning, social skill will help students to share information so that they do social interaction unconsciously. The development of cooperative learning must be directed to the development of students' social for joining the community [24]. One of social skill based-methods is Group Investigation (GI). By GI cooperative learning model, active interaction will bappen among students in terms If physical, intellectual, and emotional [25]. Cooperative learning refers to a learning which based on a small-group approach in teaching that holds students accountable for both individe 1 and group achievement [12][13]. Slavin formulates cooperative learning as follows [22]. Cooperative learning refers to a variety of teaching methods in which students work in small groups to help each other. to discuss and argue with outer to assess each other's current knowledge and fill in gaps in each other understands.

Cooperative learning has many types of models. At least, there are 16 types of cooperative learning in developed countries [17]; [16]. This research focused on the development of Group Investigation-type cooperative learning which then further developed by referring to the learning needs. This research is about speaking course with discussion topic of unemployment and employment. Eggen & Kauchak [7] define Group Investigation as a cooperative learning strategy which puts students in groups to make investigation on certain topics. Of was developed by Herbert Theles as an effort to combine teaching strategy which orientates to the development of academic study. Joyce and Weil [16] gives additional information that GI learning model developed by Thelen came from the insights of John Dewey and Michaelis who stated that education in demoeratic society should teach demoeracy directly. Mun, Ngoh & Lian conveys that GI learning model was developed by Sharan and Sharen in 1970 in Israel Sharan & Sharan [21] Meanwhile, Mun, Ngoh & Lian argue that GI learning model philosophically moves from constructivism paradigm [25]. Learning according to constructivist is the result of cognitive construction through somebody's activity. It emphasizes on the opinion that our knowledge is developed by ourselves [22]. Related to social skill, the goal of social skill in teaching speaking is to make students he able to interact with their peers so that they can accomplish and enjoy their work together.

A pre-survey has been conducted to the first semester students of Indonesian Language and Literature Education Department at a private university in Indonesia. IKIP PGRI Bojonegoro. Through observation and interview, the recent condition of teaching speaking can be noticed. Indicators of social skill were categorized not good enough as the percentage of each indicator showed 35%. The criteria were categorized based on Mun et.al [25] who stated that there are three percentage scores of social skill i.e. (1) 0%-40% classified as not good enough. (2) 41%-70% classified as good enough, (3) 71%-100% classified as good. Social skill is defined as a very important competence owned by everybody including students in keeping positive social relationship with family, peers, society, and wider relation [18]. Lecturers hold pivotal roles to improve social skill of students. Some research findings show that cooperative learning model is very helpful to lecturers and students as follows: (1) Slavin (1995) found 86% students taught by cooperative learning model has higher acad 3 ic achievement than those taught by other learning models [22]; (2) Mun et al reported that students taught by cooperative learning model performed better than those taught by competition system in which ratio was 74% : 26% [25]. (3) Stahl (1996) found that cooperative learning model more arouses the students' solidarity and transparency among students [24]. Stahl's research demonstrated that cooperative learning model supports the goal achievement and education characters.

# 8

A learning model is considered effective in improving social skill of students [2]. Since not all learning models can improve students' social skill, the researcher chose cooperative learning model as the alternative to improve social skill of students. Before development, cooperative learning model of Group Investigations is a learning process which is carried out cooperatively or in group where students try to find information (thoughts, opinion, solution data; and so forth) related to learning from various sources. At the end, students evaluate and synthesize the information truths which have been gathered together. In this learning model, students are expected to thir 14 atonomously. Slavin found that in Group Investigation, students work in six phases namely (1) Grouping, (2) Planning, (3) Investigating, (4) Organizing, (5) Presenting, and (5) Evaluating [23]. Cooperative learning model of Group Investigations is then developed in which students must share information about the topic given by the lecturer so that the subtheme of new idea is obtained. Every group is obliged to find solution to overcome the problem. After having a plan, investigation is started in which every group presents its findings. All members of each group must give opinion and answer all questions from other groups equally. Authentic a gessment is the type of evaluation used in this research as it is in line with the carriculum of Indonesian Language and Literature Education Departm 9 t. The authentic assessment is in the form of assessment sheet of skill which must be filled during the teaching and learning process. Meanwhile, the multiple choices test is used to know the differences between pre and post learning activity.

This research aimed at analyzing two main problems as follows: (1) Developing a learning model of Beach Ball. Group Investigations to improve students' social skill. (2) Analyzing the effectiveness of a learning model of Beach Ball Group Investigations during the speaking course taken by the first semester students at Indonesian Language and Literature Education Department of IKIP PGRI Bejonegoro.

# 2. METHOD

6 This is Research and Development (R & D) design. It consists of 5 main steps as follows: 1) analyzing the product wanted to develop, 2) developing initial product, 3) expert validation and revision, 4) small scale field trial and product revision, and 5) big scale field trial and final product. The first step is analyzing the product wanted to develop by preliminary study and information gathering. The second step is developing initial product by making a plan resulted from preliminary study and previous preliminary funct. The third-fifth steps belong to the phases of development design of Dick and Carey. There were two classes as the research samples, class 1A 4, the experimental class, while class IB as the control class. The data the collected by questionnaire, observation, and multiple choices. They were analyzed through *T-test* and *n-gam to* know the effectiveness of product being developed by researcher.

## 3. RESULT AND DISCUSSION

This Research and Development design answered two research questions. First, it developed IBGI cooperative learning model to improve social skill. Second, it investigated the effectiveness of BBGI during speaking course. The product result a from this research is BBGI cooperative learning model applied in the speaking course of the first semester students at Department of Indonesian Language and Literature. This BBGI is more creative and innovative as it gives students opportunities to think creatively and to speak actively during the learning process. The implementation of BBGI is expected to arouse students sharing information, interneting with peers and locture, and expressing ideas and thoughts on the tanching materials. The development of cooperative learning model of BBGI developed in this research has some phases as follows: (1) Lecturer tells the learning objectives and shows the main issue of workforce: (2) Lecturer gives pre-test to students: (3) Students discuss and express opinion on issues related to workforce while taking some notes: (4) Students categorize some themes and nake groups (1 group consists of 5 students); (5) Students join their groups and make a plan of investigations; (6) Students discuss their group theme and choose relevant sources to support their investigations; (7) Each student finds the answer or solution on the topic problems from many sources. After getting the answers, they return to their group and interchange their thoughts as well as discuss the results of investigations; (8) Students make a discussion report and present it; (9) Students are given 5 colorful balls signaling the opportunity to speak. When the student wants to ask a question, she he must put out one ball and so does the answerer. When all balls have been put out, each group member has some opportunity to both ask and answer; (10) Students and lecturer conclude the discussion result; (11) Students do posttest as cognitive evaluation.

There are some aspects distinguishing the recent cooperative learning model of Group lavestigations from the previous one with problem-based learning. Table 1 describes the differences between the previous and the recent learning model of Group Investigations.

No	Previous Group Investigations	Recent Group Investigations	
t.	At the beginning of learning process the lecturer did not tell the goal of learning to the 13 keets	At the beginning of learning process, the lecturer delivers the goal of learning and shows 13 main issue.	
2.	The student's opportunity to speak was unoqual.	The student's opportunity to speak is equal.	
3.	There was no explanation on the phases to conduct this learning model.	These is explanation on the phases to conduct this learning model.	
4.	No guidance book on how to implement this fearning model.	There is a gridance book on how to implement this learning model.	
5	This learning model was implemented without Beach Ball.	This learning model is implemented with Beach Bull.	
6.	Cognitive evaluation.	Authentic assessment by observation sheet on social skill filled during the learning process and multiple choices of cognitive test.	

Table 1. The Differences between Previous and Recent Group Investigations

Beach Ball or colorful small ball functions as the medium for cooperative learning model of Group Investigations signaling the students the opportunity to speak. Every group member gets one ball. When a student wants to argue, she he must put out the ball and she he cannot convey her his opinion before the other group members put out their ball but she he may help the other members to state opinion. Beach Ball prevents certain students to dominate the learning process. In other words, it provides the equal opportunity for students to speak. By Beach Ball, every student automatically gets only 1 opportunity to deliver opinion. Thus, Beach Ball, and Group lavestigations can be modified and combined 2 to one game method which then implemented in the learning process. It is expected that the cooperative learning model of Beach Ball Group lavestigations can improve students' social skill.

The learning theory underlining the development of cooperative learning model of BBG1 is behaviorism learning theory. It argues that students will achieve the learning goal if they are given stimulus. By having BBG1 cooperative learning model, the students are aroused to speak and improve their social skill as during the learning process, they become more active and have same opportunity to convey opinion as well as to answer questions. The stimulus was the learning model itself which has been adjusted to the indicators of social skill [18]. The stimulus and response in this learning model can create positive behavior or habit if they are repeated. Sani explains that learning belongs to behavior changing which can be observed, measured, and assessed concretely [20]. This theory uses the correlation between stimulus-response and places students as passive individuals. If stimulus and response are repeated, they can be a habit. Certain responses and behavior are obtained through training or habituation method.

The second theory underlining this learning model is cognitivist theory. The implication of cognitivist development theory in BBOI cooperative learning model is that lecturer must help students in developing their knowled 3: The final result of learning in this research is concept acquisition resulted from interaction during the learning process as well as the effects of social skill. Meanwhile, the third theory of this learning model is constructivism theory which argues that learning is a process, not a result. Students are triggered to do investigations to naturally develop their curiosity. The assessment of learning outcom 11 is emphasized on students' performance and understanding. The constructivism theory states that students must find information by themselves and transform complex information. Check new information with old regulation, and revise it if there is a minimatch regulation. Board on the result of formative evaluation. BBGI cooperative learning model was feasible to use. Therefore, based on some suggestions, formative evaluation of the fourth phase was conducted by field trial in the classroom to the students of a private university, IKIP PORI Bojonegore, Indonesia.

The field trial was conducted by comparing the experimental class with BBGI learning model and control class with Problem-Based learning model. The trial was given to 3.3 students of class IA as the experimental class and 30 students of class IB as the control class. The learning process by BBGI underwent actively in which students were challenged to accomplish their assignment and improve their social skill. This research used scientific approach as all learning processes were designed to make students active in constructing concept, law or principles through some phases of observation (to identify or find problems), problem statement, hypothesis formulation, data collection by various techniques, 10 malysis, conclusion drawing, and new concept, law or principles communication. The objective of teaching spoken language is the development of the ability to interact stic cressfully in that language [11]. It means that teaching speaking can develop the abilities to think critically express of and thoughts, solve problems and have social skill (building commitment and any areness on humanity values) through interaction. Besides, the teaching of speaking skill arms at improving the ability to compete and cooperate with people in heterogeneous society both in national and international scales.

The speaking course with the discussion theme of memployment and employment by using IBGI and problem-based learning was intended for improving social skill of students so that they can develop their personality in school and society. In this context, personality development means that after undergoing a learning process, there must be development and adjustment 18 he betterment of student's behavior. BBGI cooperative learning model demands students to be more active and skillful during the learning process as well as to explore and behave based on the social skill. The effectiveness of BBGI cooperative learning model was tested by t-test and n-gain (differences between pretest-posttest). Tealculation was greater than table by 2.660 > 1.998 which meant that social skill resulted from experimental class targht by BBGI was better than that from control class targht by problem-based learning. The average score of social skill with BBGI was 76.52% which led to good criterion based on Mun et. al classification ( [25]. The difference between pretest-posttest was 71.73% for experimental class and 66.56% for control class. Based on classification table of n-gain according to Hake

(1999)[8], n-gain of experimental class was high by 71.73 ≥70.00. Thus, it could be concluded that BBOI was effective in improving social skill of students.

Is detail, there are four dimensions with 8 indicators used by the sesearcher to measure social skill. They are: 1) dimension of interaction skill with the indicator of ability to share information, 2) dimension of communication skill with the indicators of abilities to listen and speak in turn-taking as well as to convince others to argue, 3) dimension of team/group building skill with the indicators of abilities to accommodate other argument and to cooperate with other people, 4) dimension of problem solving skill with the indicators of controlling one-self, finding solution through discussion, and respecting different opinions. Dimension and indicator of social skill which has been a habit in this research was dimension of team building and indicator of cooperation. Theoretically, BBGI cooperative learning model was statistically effective as proven by tealculation.> ttable which meant that social skill in experimental class taught by BBGI was better than control class taught by problem-based learning. 15

The result of this research is in line with the one done by Salako, et al entitled the Effects of Cooperative Learning toward knowledge and attitude of students on the concept of multicultural education in social science [19]. The research result showed that social skill was not only developed by learning materials but also by method, media, and learning model. Effective method and model which can improve social skill is cooperative learning model. Effective method and model which can improve social skill is cooperative learning model. This research is different from the previous one as it aimed at improving socia [7]. If The result of this research was similar with the one carried out [9]. [3]. [4]. [6] who stated that cooperative learning model is very effective in improving and developing the process of teaching and learning on speaking course as well as increasing passion and academic achievement of students. This learning model has specific features with the teaching of speaking. It influenced not only to learning outcomes but also to attitude, value, moral, and social skill used in the community [26].

# 4. CONCLUSION

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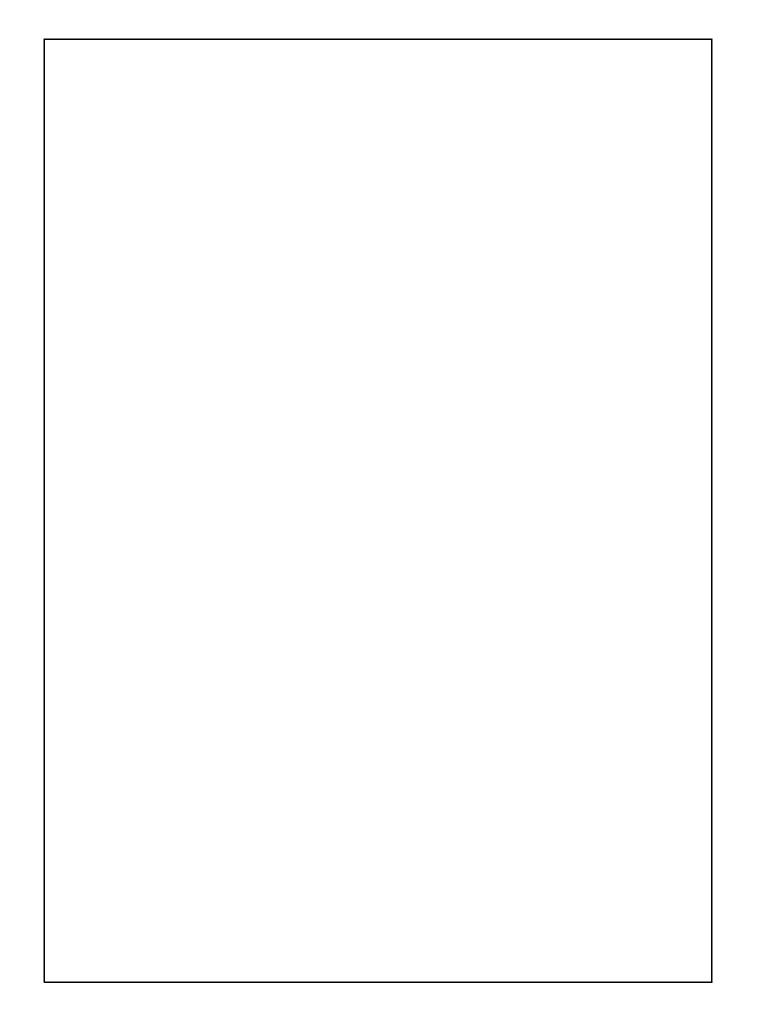
The product resulted from this research is a cooperative learning model of Beach Ball Group Investigations (BBGI) which can improve social skill of students. The effectiveness of BBGI cooperative learning model was tested by t-test and differences between pretest-positest scores (n-gain). T<sub>edentries</sub> was greater than t<sub>table</sub> by 2.660–1.998. The average experimental social skill by BBGI cooperative learning model was 76.52% and this percentage of social skill was categorized as good according to the criteria of Mun et al. [25]. Meanwhile, the n-gain between pretest a 9 postlest was 71.73% and it was classified as high by 71.73  $\geq$  70.00. In conclusion, BBGI cooperative learning model was effective in improving student's social skill.

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