

Appendix 1

RESEARCH MATRIX

Title	Problem	Variables	Indicators	Data Resources	Research Method	Hypothesis
Improving Speaking Ability through I-O-C (Inside-Outside-Circle) technique at the tenth grade of SMK Moch Sroedji Jember in academic year 2018-2019	<ol style="list-style-type: none"> How can the use of inside-outside-circle technique improve the speaking ability of the tenth grade at SMK Moch. Sroedji Jember in 2018/2019 academic year? How can the use of inside-outside-circle improve the students' active participation of the tenth grade at SMK Moch. Sroedji Jember in 2018/2019 academic year? 	<p>Independent: The use of I-O-C (Inside-Outside-Circle) technique</p>	<p>➤ I-O-C (Inside-Outside-Circle): The teaching steps in Inside-Outside Circle Technique Teacher's preparation: 1) Find a subject and adapt it where necessary to suit them 2) Prepare the possible picture The way to use the technique: 1. Divided students into 3 groups consisting of 6 and 8 students. 2. Choosing 1 groups to perform in front of the class. 3. Formed them with two circles 3 inside and 3 outside in pairs. 4. Provide a picture to each groups. The inside circle started by describing the picture given and for the outside circle guessed the topic that described by the</p>	<p>➤ Subject: Tenth grade students of SMK Moch Sroedji Jember in 2018-2019 academic year</p> <p>➤ Informant: The tenth grade English teacher at SMK Moch Sroedji Jember in 2018/2019 academic year.</p> <p>➤ Documents:</p> <ul style="list-style-type: none"> Name of research subject Students' score of speaking Students 	<p>➤ Research Design: Classroom Action Research(CAR) The step of the research</p> <ol style="list-style-type: none"> Planning Action Observing Reflecting <p>➤ Informant: Tenth grade English teacher at SMK Moch Sroedji Jember in 2018/2019 academic year Class mean score are >70</p> <p>➤ Instruments:</p> <ul style="list-style-type: none"> Speaking Test Observation checklist <p>➤ Criteria of success: 70%</p> <p>➤ Data Analysis: $E = \frac{n}{N} \times 100\%$ Where: E: Percentage of students</p>	<p>➤ Inside-outside-circle technique can improve tenth grade students speaking ability at SMK Moch Sroedji Jember in 2018/2019 academic year</p> <p>➤ Inside-outside-circle technique can improve tenth grade students' participation on speaking activities in the classroom at SMK Moch Sroedji Jember</p>

		<p>Dependent Variable: Students' speaking ability</p>	<p>inside circle in three minutes.</p> <p>5. They had their own time to describe and guessed because they were rotated clockwise one position if the inside circle had described the pictures.</p> <p>➤ The student score of speaking ability:</p> <ol style="list-style-type: none"> 1. Grammar 2. Fluency 3. Vocabulary 4. Pronunciation 	<p>previous speaking test score</p>	<p>speaking ability</p> <p>n: Number of students achieved minimum standard score</p> <p>N: Total number of students in the class</p>	<p>in 2018/2019 academic year.</p>
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