

**ABSTRACT**

**MODIFIED SCIENTIFIC APPROACH TO ENHANCE STUDENTS’  
LEARNING MOTIVATION AND SPEAKING ABILITY  
IN SMP NEGERI 6 NATAR**

By

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This study investigated the effectiveness of modified scientific approach to improve students’ learning motivation and speaking ability. Moreover, the research examined the significant difference in students’ improvement in learning motivation and speaking ability between those who were taught by modified scientific approach and original scientific approach and measured the correlation between students’ learning motivation and speaking ability in experimental class. An experimental design was employed within a quantitative research framework, involving two classes of junior school students, each consisting of 34 pupils. The data were collected through speaking tests and learning motivation questionnaire given to the students before and after receiving the treatment. Then, the obtained data were analyzed by comparing the mean score of each group and running an independent t-test to measure the first and second research questions. The Pearson product-moment was used to examine the third research question. The results demonstrated a significant difference in students’ learning motivation and speaking ability after the students were taught through the modified scientific approach and original scientific approach. This was evident from the n-gain of speaking scores in both classes: 0.77 in experimental class and 0.60 in control class. Furthermore, it was revealed that the learning motivation in experimental class was categorized at an average level, while in control class, it was at a low level. Moreover, there was a high correlation between students’ learning motivation and speaking ability in experimental class. Therefore, this study affirms that modified scientific approach significantly enhances students’ learning motivation and speaking ability. Considering the result findings, English teachers are encouraged to implement the modified scientific approach.

**Keywords:** *Gamification, Scientific Approach, Learning Motivation, Speaking Ability*