

# The development of scientific concept on electrostatics of grade 11 student through Predict – Observe – Explain (POE)

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This research was aimed to study and enhance the students' concepts on electrostatics by using Predicts-Observe-Explain approached. There were 45 grade 11 students, second semester of academic year 2014 (November 2014-March 2015), Roi-Et Wittayalai School Office of Secondary Education Service Area 27, participated this study. This research was performed in qualitative research designed. There were two main research tools used. Firstly, 6 lesson plans (total 12 hours) on electrostatics. Secondly, evaluation tools, 20 questions with two-tier multiple choices. The response from both student and observer were interpreted soon after each learning activity finished. It was found that the pre-test of students showed their partial misconception for 37.20% of total students and 62.79% total misconception. After finished Predicts-Observe-Explain approached, post-test performed that student had perfectly the correct for 62.22% while 37.77% still remained some misconceptions on electrostatics. It could be concluded that students had developed their alternative concepts to scientific concepts on electrostatics.

## Summary

**Primary author:** Ms MARTJUN, Mateeya (Department of Education in Science and Technology, Faculty of Education, Khon Kaen University, Thailand, 40002)

**Co-authors:** Dr RUANGSUWAN, Chaiyapong (Department of Physics, Faculty of Science, Khon Kaen University, Thailand, 40002); Dr PUWANICH, Patana (Department of Physics, Faculty of Science, Khon Kaen University, Thailand, 40002)

**Presenter:** Ms MARTJUN, Mateeya (Department of Education in Science and Technology, Faculty of Education, Khon Kaen University, Thailand, 40002)

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