



Title : Android Application for Ionic Bond Puzzle Game

Author(s) : Ms. Warunyaporn Kongma

Student ID : 630510643

Major : Computer Science

Advisor(s) : Assistant Professor Dr. Areerat Trongratsameethong

Type of presentation* (choose 1) :

- Oral Presentation
- Poster
- Cooperative Education

ABSTRACT

Learning chemical bonds, especially an ionic bond, in grade 10 chemistry is an important part of developing your understanding of chemistry. Chemical bonds are basic knowledge of chemistry at the next level. However, the exercises provided in the book may be boring for some learners. Resulting in a lack of motivation to study, lack of enthusiasm for learning, and student learning outcomes will not be effective. Therefore, the author had an idea to develop an ionic bond puzzle game for Android smartphones. Ionic bond puzzle games can be easily accessed using smartphones. As a result, students easily understand ionic bonds and enjoy learning. Teachers can also use games as a medium to reinforce learning. It also encourages students to be interested in ionic bonds.