

# A Study of the Authentic Assessment in Learning Chemistry

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## Abstract

The aim of this study is to explore how infusing concept mapping techniques into learning chemistry concepts, and also to discuss issues related as followings:

- (I) To investigate by which way the concept mapping techniques could more efficiently reflect the intrinsic chemistry knowledge and structure owned by students?
- (II) To explore whether concept mapping techniques could efficiently achieve the end of concept change.
- (III) To find which way combined with the concept mapping techniques could more achieve the end of concept change.

The “ionization energy” was the topic to be discussed in this study. There include a two-tier multiple selection test as the research tool, concept mapping techniques besides, to dig out and clarify students’ misconceptions.



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Keywords: Concept Mapping, Chemistry Concept, Misconceptions