

## Development of Flipped Classroom in Chemistry on 'Acid-Base' for Enrichment Science Classroom Students

**Authors :** Waratthaya Maneerattana, Piyarat Dornbundit

**Abstract :** The study aimed to develop flipped classroom in Chemistry on 'acid-base' for high school students and study efficiency of students on academic achievement and problem-solving skills. The evaluating result from the experts showed that developed flipped classroom was ranked in high score level. The flipped classroom efficiency E1/E2 was higher than the criteria of 70/70. The flipped classroom was used by 24 students in grade 11 in the second semester of the academic year 2016 at Bodindecha (Sing Singhaseni) School. Sampling group was chosen using a purposive sampling approach. The results revealed that academic achievement and problem solving skills of students after studying flipped classroom was significantly higher at .05 level.

**Keywords :** flipped classroom, acid-base, academic achievement, problem solving skill

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