Using Scratch to Increase Students' Achievement and Motivation Toward Solar System

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Abstract

The misconception is a conception that is incompatible with the scientific understanding or understanding accepted by the expert in that field. Students often face misconceptions about abstract concepts that they found difficult to be represented in physical forms such as Solar System. ICT such as Scratch application can be used to overcome the misconceptions of Solar System. This study use of Scratch application to increase students' achievement and motivation towards topic Solar System. This action research had applied quantitative approach by using instruments such as pre-test, post-test and questionnaire based on Kemmis and McTaggart model (1988). 30 students from a school at Penang were selected as samples of the research. Science Achievement Test (SAT) was used to identify students' achievement while Motivation Level Questionnaire was used to identify students' motivation towards topic Solar System. Based on deskriptive analaysis, the findings of the research shows that Scratch application can increase students' achievement and motivation towards topic Solar System. The integration Scratch in science have provided positive implications towards science teacher, students and researcher.

Keywords **:** *Achievement; Motivation; Scratch; Solar System*

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