

Nanthiya Suwannawong 2010: Dramatized Experience for Promoting Scientific Literacy on Global Warming. Master of Arts in Teaching, Major Field: Teaching Science, Department of Education. Thesis Advisor: Mr. Pongprapan Pongsophon, Ph.D. 159 pages.

This study had 3 phases. The first phase is to explore the scientific literacy (SL) on Global Warming (GW) of 106 students from one large-sized secondary school in Bangkok. The second phase is to design and develop Dramatized experience for SL on GW learning unit. The last phase is to implement the learning unit and evaluate its effectiveness in form of the promotion of SL on GW. The participants of this phase are 31 students who volunteer in Dramatized experience for promoting SL on GW activity. The research tools were the questionnaire about students' SL on GW. It consisted of two sections. The first section was the perception about the keywords of GW. The second part was the SL on GW which consisted of two parts (aspects of the scientific literacy, known as KE); Knowledge (K) and Engagement (E). The data were analyzed through content analysis and categorization. The profile of SL of the whole group of students was illustrated by the mean score of each aspect.

The results indicated that Dramatized experience for promoting SL on GW activity could increase the students' perception about the keywords of GW and the students could explain the definition of these words related to the scientific concept. Moreover the students could develop the SL on GW. The mean score of content knowledge had increased from fair to good. The students had developed scientific understanding in the concepts of causes, consequences and cure of GW. In the aspect of engagement, the mean score increases from fair to excellent.

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Student's signature

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Thesis Advisor's signature