

C142994 : MAJOR EDUCATIONAL PSYCHOLOGY

KEY WORD : SCIENCE PROBLEM SOLVING/SCIENCE DIVERGENT THINKING/SECONDARY
SCHOOL

WINAI CHAREONSUK : A COMPARISON OF SCIENCE PROBLEM SOLVING OF
MATHAYOM SUKSA THREE STUDENTS WITH DIFFERENT SCIENCE DIVERGENT
THINKING. THESIS ADVISOR: ASSO. PROF. PRASARN MALAKUL NA AYUDHAYA,
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The main purpose of this descriptive research was to study the comparison of science problem solving of Mathayom Suksa three students with different science divergent thinking. Sex variables were also investigated in this study. The sample included 356 students. The instruments used in this research were The Science Divergent Thinking Test constructed according to Guilford's Structure of Intellect Model Theory and Cognitive Preference Test (CPT) constructed according to Atwood's approach.

The research findings were as follows:

1. The students with different science divergent thinking had significantly different science problem solving. ($P < .001$)
2. There was no significant effect of sex variables on the student's science problem solving ability.
3. There was no significant interaction of sex variables and science divergent thinking on the students' science problem solving ability.