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: MAJOR

KEY WORD:

##C440027 : MAJOR CURRICULUM AND INSTRUCTION

KEY WORD : COOPERATIVE LEARNING / LEVELS OF MATHEMATICS ABILITIES /
MATHEMATICS LEARNING OUTCOMES / ELEMENTARY EDUCATION LEVEL.CHATCHAI MUANGPATOM : EFFECTS OF TYPES OF COOPERATIVE LEARNING
AND LEVELS OF MATHEMATICS ABILITIES ON MATHEMATICS LEARNING OUTCOMES OF
STUDENTS AT THE ELEMENTARY EDUCATION LEVEL.' THESIS ADVISOR : ASSO. PROF.
NORMSRI CATE, Ph.D. : CO-ADVISOR : ASSIST. PROF. SUWATANA SUWANAKETNIKOM,
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The purposes of this research were to compare effects of types of cooperative learning and to study interaction between types of learning and levels of mathematics abilities on mathematics learning outcomes. The samples were 144 Prathom Suksa five students of Prasamutjedee school at Smutprakan. They were consisted of 36 high, 72 moderate and 36 low levels of mathematics ability students. The samples were randomly assigned to experimental treatment in four groups. The first group studied by Team Assisted Individualization, the second studied by Student Team Achievement Division, the third studied by Team Imposed Learning Expectation and the forth was the control group. The results of this research were as follows :

1. There was different mathematics achievement score between students with different types of learning. The results of post hoc comparison showed that students who studied by Student Team Achievement Division and Team Imposed Learning Expectation had higher score than the control group. There was no interaction effect between types of learning and levels of mathematics abilities on mathematics achievement.

2. There was no different mathematics learning attitude score between students with different types of learning, but there was interaction effect between types of learning and levels of mathematics abilities on mathematics learning attitude. The results of post hoc comparison showed that students with low mathematics ability who studied by Student Team Achievement Division and Team Imposed Learning Expectation had higher score than the control group.

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ลายมือชื่ออาจารย์ที่ปรึกษาร่วม.....