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MONTAWAN PIBOOLTHEAW : THE DEVELOPMENT OF A
LEARNING PACKAGE ON SOLID WASTE FOR MATHAYOMSUKSA 1
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This study was designed as an experimental research project. The purposes of the study were to develop and determine the efficiency of a learning package about solid waste and to compare students' learning achievement before and after using the learning package. The sample comprised of 45 matthayomsuksa 1 students who enrolled in the first semester of the academic year 1999 at Rittiyawannalai School ,Bangkok. A random simple sampling method was employed for selection of the sample. The research instruments consisted of six units :

- Unit 1 Situation News of Solid Waste
- Unit 2 Problems and Effects of Solid Waste
- Unit 3 Definitions Components and Types of Solid Waste
- Unit 4 Principle of Solid Waste Classification
- Unit 5 Taking Advantages from Solid Waste
- Unit 6 Solid Waste Management

The achievement tests (pre and post) and a student opinion test on solid waste were also included . The learning achievement scores were compared by using the t-test .

The efficiency of the learning package was 81.20/77.42 The post-test achievement scores were significantly higher than the pre-test scores at the 0.05 level.