Patcha Eainwilai 2009: Construction of Solid Waste Management Activities for Early Childhood in Aroonpradit School, Phetchaburi Province. Master of Science (Environmental Science), Major Field: Environmental Science, College of Environment. Thesis Advisor: Associate Professor Ittipol Rasrikreangkai, M.Ed. 123 pages.

This research was aimed for the construction of solid waste management activities for early childhood, together with the study of student's effect after the implementation of these activities. Samples selected by group random sampling from classroom no. 4 semester 2/2009 were comprised of 30 third grade kindergarten, also including 10 teachers and 30 guardians. Solid waste activities was constructed to include the study plan, teaching media and equipments for preparing learning activities, learning achievement test, and satisfaction survey form. Teachers and guardians had collaborated together to verify curriculum and observe behavioral change as well as forecasting changes among students. This research used the statistic application in data analysis, namely, Percentage, Mean and Standard Deviation.

Research results revealed that the construction of solid waste management activities for early childhood contained acceptable quality in Validity, Objectivity Reliability 0.72, Power of Discrimination 0.43 and Difficulty 0.37 – 0.72. Overall curriculum effectiveness measured at 88.56 percent. After applying the constructed activities with samples in the waste separation program as part of the solid waste management activities for early childhood at aroonpradit school, phetchaburi province, findings indicated overall achievement of 87.62 percent immediately after the complete use of activities. After 4 weeks, it was found that the mean number of students separated wastes correctly had increased to 98.59 percent whereas the amount of wastes reduced to 49.12 percent which coincided with the set criteria.

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