

PROCEEDINGS

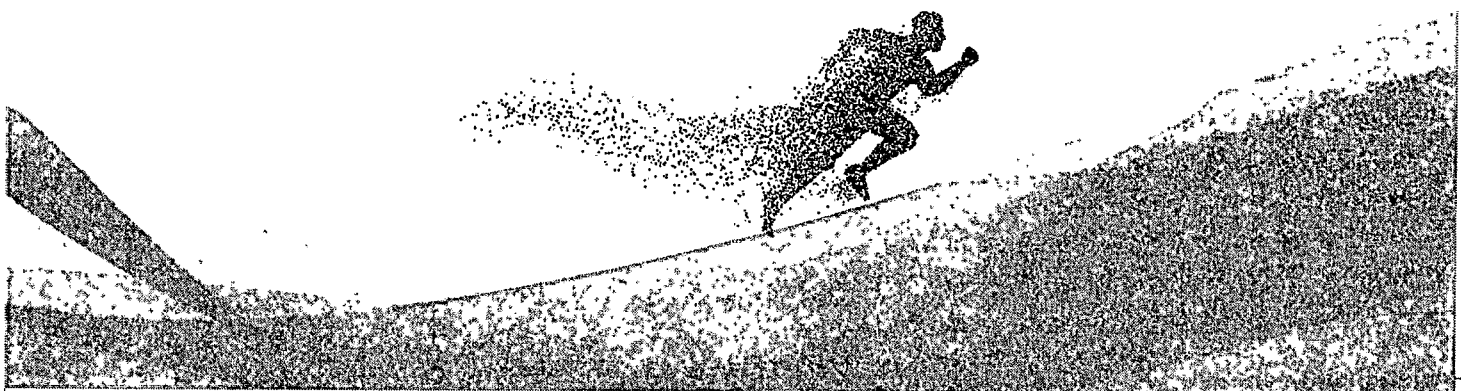
**7th Institute of Physical Education
International Conference 2017**

**Theme : Sports Health Recreation and Tourism :
The Added Economic Value**

28 - 30 June 2017

At Town in Town Hotel Bangkok, Thailand

**Institute of Physical Education
Ministry of Tourism and Sports**



Fine Motor Development of The Kindergarten and Primary Students Performing Manual Art Activities.

Teerapol Poblarp, Ekachai Tanadernkao, Pavin Podjanaaree, Siriporn Roongruang,
Manot Aimprasert, Chayakorn Pavontaweasuk*, Chanon Sansern, Pijit Kamonchot.
Faculty of Education, Institute of Physical Education Samutsakorn Campus.

Abstract

The purpose of this study was to compare fine motor abilities of the kindergarten and primary students before and after training manual art activities after school. The subjects were 200 students studying in level 3 kindergarten, and grade 1, 2, 3 in primary students, secondary semester in academic year 2015 of Watdonkaidee Municipal School. Fifty students were purposively sample from each level. One Group pre-test,post-test design was used in the study. The experiment were carried out within 8 weeks, five days each week, and one hour a day. The instruments consisted of the program of manual art activities which had modified by the physical Education Institute and the fine motor ability test which modified by Pakakarn Noiniam (2013). Data Collecting by pretest-posttest fine motor ability before and after the experiment and data analyzed by using arithmetic mean, standard deviation and dependent t-test

Result

The results of the study revealed that after the training of manual arts activities :

1. The level 3 kindergarten, the fine motor abilities had better statistical significance at the level of 0.05 all of areas, accept only the area of the fine motor flexibility in the girls didn't improve significantly.
2. The grade 1 primary students, the fine motor abilities had better statistical significance at the level of 0.05 all of areas, accept only the area of the eye hand coordination in the girls didn't improve significantly.
3. The grade 2 primary students, the motor abilities had better statistical significance at the level of 0.05 all of areas, accept only the area of the eye 2 oordination in the girls didn't improve significantly.
4. The grade 3 primary students, their motor abilities had better statistical significance at the level of 0.05 all of area, accept only the area of the fine motor dexterity in the girls didn't improve significantly.

Keyword

: Fine Motor Ability
: Manual Art Activities
: Dexterity/ After School
: Kindergarten/ Primary School
: Watdonkaidee Manicipal School

Introduction

Fine motor ability is very essential in life of children, especially Kindergarten because it is the basic organ which has been usual in their life's activities such as brushing, clothing, bottom, writing etc. If the children has been dexterity in using of fine motor, it can be influencing on promoting of their development such as : brain development. In order to develop

fine motor ability, the first it should be to promote the areas of eye-hand coordinating because it is generally accepted that eye-hand coordination is the importance basic of the brain operation. It was found that eye-hand coordination was high relationship with writing skill. Beside, there were many researches which had found the fact of fine motor ability. Accoding to the study of Grissmer et.al. (2010) found that early fine motor skill in kindergarten school were a predictor for reading and math achievement during elementary school. There were several explanation for why fine motor skill might predict achievement : There are some areas in the brain that are involved in both the processing of motor