

Xu Qingsong. (2024). Effect of Mastery Learning Combined with Mind Mapping Technique on the Students' Sculpture Performance Ability for Junior University Students of Suzhou Vocational and Technical College of Arts and Crafts. Master of Education (Curriculum and Instruction). Advisors: Asst. Prof. Dr. Angkana Karanyathikul, Assoc. Prof. Dr. Sombat Kotchakit

### ABSTRACT

This experimental research aimed to 1) compare learning achievement before and after learning through mastery learning combined with mind mapping technique, and 2) compare sculpture performance ability after learning through mastery learning combined with mind mapping technique with the established 70 percent. The samples are a class of 30 second-year students of Sculpture in the School of Environmental Art, School of Environmental Art, Suzhou Vocational and Technical College of Arts and Crafts, the People's Republic of China, in the 2023 academic year. They were derived from cluster random sampling. The research instruments were (1) the four lessons of the sculpture course with a mean of congruence of 4.8, (2) the learning achievement test paper of the sculpture course with a reliability index of .72, (3) the sculpture performance ability evaluation form with a reliability index of .70. The data were analyzed by using the mean, standard deviation, t-test for dependent samples, and t-test for one sample.

The results showed that 1) the students' sculpture learning achievement after learning through mastery learning combined with mind mapping technique was higher than that before learning at a significance level of .05 ( $t = 13.06, p = .05$ ); and 2) the students' sculpture performance ability after learning through mastery learning combined with mind mapping technique was higher than the determined criterion of 70% at a significance level of .05 ( $t = 11.05, p = .001$ ).

The findings showed that combining mastery learning combined with mind mapping techniques could improve students' learning achievement and sculpture performance ability. The stages include: 1) setting clear goals, 2) independent learning, 3) personalized learning plans, 4) periodic evaluation, and 5) feedback and improvements.

**Keywords:** Learning Achievement, Sculpture Performance Ability, Mastery Learning, Mind Mapping