



جامعة الفيوم
Fayoum University

Faculty of Specific Education

Department of Art Education



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Modal Variables of Complex Tangram as an Entrance for Teaching the Design to the Students of Art Education

By

Esraa Ali Hassan Abd Elgawad

Demonstrator in the Department of Art Education (ornamental designs)

Faculty of Specific Education – Fayoum University

Thesis submitted in fulfillment of the requirements for the Master
degree in Art Education (Ornamental Designs Specialization)

Supervised by

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Abstract

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Research Title/ Modal Variables of Complex Tangram as an Entrance for Teaching the Design to the Students of Art Education

The problem of the research came in the following question/ the extent of utilization of the formal variables of the complex tangram to teach design to students of art education and the implementation of new design work, Building in design is a logical, structured problem-solving process that aims to presentation something new, the design structure of this research is based on the structures and systems of the shape of the Complex Tangram, which consists of 7 pieces of wood with different materials. The aim of this game is to exploit fixed forms (tools + design element) to produce different designs and achieve the principles of design. the study included six main chapters, the first chapter of which deals with both the introduction of the research and the problem of research, in addition to the objectives of the study, which aimed primarily to address the variables of the Tangram through the permutations of the seven forms, the first chapter also dealt with research

hypotheses and limits of research and research methods and tools used in the research and the most important terms used in the research, and the most important studies associated with research.

The second chapter deals with the variables of the geometric shape with various types in addition to the aesthetic effect of the variables of the geometric shape in the design, while the third chapter deals with some learning strategies through Tangram, as well as the shape of the tangram and its rules and laws governing it, as well as illustrates some of the geometric forms of the tangram and the experiences of some artists using them in their paintings. The fourth chapter deals with the use of color in the engineering designs of tangram, while the fifth chapter deals with the applied framework of research (research experiment) through four axes are the objectives of the experiment, the limits of the experiment, and the steps of conducting the experiment, and describe and analyze the works of the students experiment, while the sixth chapter deals with The results of statistical analysis of the research experience, interpretation and discussion through several parts, including the standard of business arbitration, statistical treatments, analysis of statistical results and the general results of the research, in addition to recommendations

