

3D Modeling

Enrichment programs are one of the most important global methods used to enrich the knowledge of gifted students. From this point of view, Mawhiba has designed specialized scientific enrichment units representing 75% of the program, enriching students' knowledge and experiences and challenging their abilities in a number of scientific fields, in cooperation with the best international expert houses in the field of Talent and creativity, provided with progressive levels of knowledge; With the aim of continuing to build quality cumulative scientific experiences, which increase in depth and diversity as students progress in participation year after year.

As well as for the importance of the skill aspect, Mawhiba allocated 25% of the summer enrichment program, and therefore a set of skill bags were designed that are concerned with building the basic and important life skills of gifted students, which contribute to the development of personal, social and innovative skills that keep pace with the skills of the twenty-first century such as future vision and digital security. leadership, social influence and other skills .

What is the 3D Modeling unit?

This unit focus on creating three-dimensional models (shapes), beginning with models and ending with architecture. it requires high abilities in dealing with studio programs such as (3D Max) or (3D Cinema).

Unit objectives

Students shall be introduced to the studio program used in this module, the tools this program has, and how to create a new project on this program. Students shall conclude this part by creating simple objects using this program to ensure that he/she possesses the minimum skill in dealing with the program. Students shall then move to designing shapes, spaces, and models through developing mental visualizations of 3D shapes and models and combining multiple variables in innovative and effective design solutions. They shall then draw a map to implement the design using the tools provided in the studio program.

Students shall be introduced to the idea of three-dimensional printing, its beginnings and uses, as well as the principle of its operation, the concept of layers and how to use the same. The role of 3D printers in the formation of prototypes of any product at a small cost shall be introduced, together with ensuring its validity and display in an attractive and clear manner before starting the design and commercial production process.

The skills that students will acquire

Students will be able to build and develop basic skills, such as “teamwork, problem solving, reading and analyzing scientific literature, demonstrating understanding through oral and written communication, in addition to a number of targeted skills, which are provided through training packages appropriate to the age group, provided by Specialized and trained staff, including:

- Future vision.
- Digital security.
- Leadership and social influence.

Program components

- A specialized enrichment scientific unit.
- Practical activities and scientific projects.
- Skill activities.