

Classroom Observation Log

School: Alexandria City High School.

CTE Course: SEPS 297: Observation & Practicum Fall 2024

Clinical Faculty:

Date: 9/24/2024

Time:

Classroom Observations: (9th and 10th grades)

The class was about the fundamental steps to convert 2D sketches into 3D models by using Onshape software. The teacher, Mr. John, started his class with a summary of the previous class to make sure that all the students mastered the materials. After that, he started explaining the rules to convert 2D sketches into 3D models. He broke down those concepts into small pieces to make them easier for the students to understand.

Student's reaction to the lesson:

Most of the students became more engaged in this lesson when they realized that they could create their own designs. On the other hand, a few students needed some help. Some of them tried extruding in the wrong direction, and others tried to extrude an incomplete sketch. These kinds of mistakes make students feel confused and disappointed. Therefore, students need assistance in order to find out their mistakes. Overall, I think this kind of lesson increases students' curiosity and inspires them to learn more.

Best practices Observed:

The best practice that I observed is when the teacher first asked the students to sketch on a piece of paper, and then he played a tutorial video and asked the students to pay attention to the designs in the videos. After that, he asked them to follow the steps in the videos to do their actual designs on Onshape.

Take Aways:

Students should walk out of the classroom with a better understanding of the process of 3D printing. Also, students should be able to design on software, such as Inventor, Tinker CAD, or On Shape.