

COURSE OUTLINE

SUBJECT: Design

GRADE: 8

COURSE DESCRIPTION

The goal of the middle school Design curriculum is to give students an introduction to technology. Students will begin by learning the basic vocabulary that will follow them through their final year in eighth grade. Through the course students will begin a state of the art modular laboratory program that will allow for a variety of hands-on experiences. Then in eighth grade students will culminate with an industry standard drafting program that will aid in their understanding of engineering principles.

Technology is one of our district goals, and is a subject that changes exponentially. Digital cameras have had some big innovations in recent years and are in common use. However our students will be taking their “point and shoot skills” to a higher level by learning about types of photography, uploading to a computer, editing pictures, and making web based images.

ANTICIPATED STUDENT OUTCOMES:

By the end of the quarter, students in this class will be able demonstrate the following competencies:

(The notation in parenthesis refers to the New York State Learning Standard to which that competency is linked.)

- Use the standard computer keyboard effectively and efficiently (MST 2,5)
- Use the basic functions of a ONShape Program (MST 1,2,3,6,7)
- Draw and read complex multi-view technical drawings (MST 1,2,3,5,7)
- Apply a basic planning process to a project activity (MST 1,2,3,5,7)
- Students will be able to use the ONShape program efficiently and effectively (MST 2,5)
- Understand the need for and demonstrate safety in the Technology lab (MST 5)

Technical:

- Students will be able to operate and maintain a digital camera in both automatic and manual modes.
- Students will be able to download pictures from their camera disk to their personal storage area.
- Students will be able to determine focal length, shutter speed and aperture settings.
- Students will know when to use flash and when not to use flash.

Practical:

- Students will identify appropriate settings, situations and individuals to photograph.
- Students will be able to write and print appropriate captions for final photos.

Aesthetic:

- Students will learn how “to see” as a photographer.
- Students will understand how to make a photograph that “tells” as well as “shows”.
- Students will be able to critique their own photographs and photographs taken by their classmates.

MATERIALS:

1 folder

SD Card (4gb)

CRITERIA for ASSESSMENT

- Daily Mini Assignments
- Participation in class
- Projects
- In-class assignments
- Projects
- Class participation
- Tests/quizzes/quests

MATERIALS:

1 folder

SD Card (4gb)

Opportunities for Enrichment:

Students that excel in Design will be given opportunities to lead activities, to work with other computer programs appropriate to their interests. Enrichment activities will not be graded. Students in need of extra help or additional time to complete assignments are expected to seek assistance and to come for T-periods.

This outline was developed by: J.P. Kaminski

Date: Spring 2022