Pasadena
EDUCATIONAL FOUNDATION

Summer 2020 Lesson

Class: 3D Printing

Grade Band: 6th-8th

Teacher: Dr. Brooks

Lesson: Tinkercad 101
Level: Beginners

Objective:
This video tutorial will guide students through the basic functions of the 3D design program Tinkercad. Students will be introduced to key functions such as placing, viewing, moving, rotating, grouping, resizing, and aligning.

Materials:

CPU access
Website: https://www.tinkercad.com/

Process:
Students will visit the following website:

https://www.tinkercad.com/joinclass/BSIA9ED7VYXE

This will allow students to join the Tinkercad PEF Summer 2020 3D printing class.

Once students have joined the class they will enter their first name and the first letter of their last name.

Students will then click on the "New Design" tab which will take them to the 3D design space.

Students will "place" a box onto the workplane.
Students will use the "view cube" to look at the object from every possible angle.
Students will use the arrow keys to "move" the object.
Students will "rotate" the object by clicking on specific arrows that will be shown in the video tutorial.
Students will "resize" the object by clicking and dragging specific boxes that will be shown in the video tutorial.
Students will "group" two objects together by using the function Ctrl G or by highlighting both objects and clicking the Group symbol.
Students will "align" two objects by clicking the "align" symbol.

Vocabulary:
  Placing, viewing, moving, rotating, grouping, resizing, and aligning.