Grade 8
Distance Learning Module 1: Week of: 3/30/2020-4/3/2020

Grade 8 Computer Science - *Modified from* Unit #1 - 3D Modeling

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Design requires a great deal of precision and accuracy in creating a prototype, which means being able to fluently manipulate 3d modeling software and work in virtual 3D spaces.

Vocabulary: Placing, viewing, moving, rotating, sizing, grouping and aligning of objects.

Skills:

- Insert shapes on a new geometric plane while creating an object, using 3D modeling software.
- Create an object with a variety of features, using 3D modeling software.
- Group several shapes together while creating your object.
- Manipulate the orientation options of any given object, as needed.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Watch video introduction from Mr. Kiefer with a course overview.	Intro video from Mr. Kiefer Video about 3D printing.	Watch the video about 3D printing, and respond to the question posted in Google Classroom.
Tuesday: Log into Tinkercad for the first time with Google account. Students then finish the Tinkercad activities listed in Classroom.	Watch Mr. Kiefer's video showing how to log into Tinkercad and enter invitation code into your profile. Students do the following activities: ● Place It! ● View It! ● Move It! ● Rotate It! ● Size It Up! ● Group It! ● Align It!	Teacher can moderate student progress via Tinkercad dashboard.

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Wednesday: Get more practice with essential Tinkercad functions by completing some slightly more advanced self-paced lessons.	Watch Mr. Kiefer's video tutorial for the "Die on the Workplane" exercise. Students do the following activities: ● Creating Holes ● Scale, Copy & Paste ● Key Ring, Letters! ● Die on the Workplane	Teacher can moderate student progress via Tinkercad dashboard.
Thursday: Continued work from Wednesday: get more practice with essential Tinkercad functions by completing some slightly more advanced self-paced lessons.	Students do the following activities: ● Creating Holes ● Scale, Copy & Paste ● Key Ring, Letters! ● Die on the Workplane	Teacher can moderate student progress via Tinkercad dashboard.
Friday: Whole class live Kahoot!	Students will join Google Meet for brief face-to-face interaction about how things are going. Students will go to Kahoot Students will fill out Google Classroom question.	Teacher will take attendance. Ss will fill out a Google Classroom question about how things are going so far.

Week criteria for success (attach student checklists or rubrics):

- Ss will join Google Classroom and imagine the possibilities of 3D printing.
- Ss will create a TinkerCAD account and complete some basic 3D modeling functions.
- Ss will share their online learning experience, how things are going so far.

Supportive resources and tutorials for the week (plans for re-teaching):

My video tutorials above can be viewed multiple times for students to re-teach themselves. I will also post office hours, every day, 1-2pm.