Grade 7
Distance Learning Module 6: Week of: 5/11/2020-5/15/2020

Grade 7 Technology Explorations - 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: CAD = computer aided design, workplane, 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 ● Review and refine Tinkercad skill-moves by completing self-paced lessons in Tinkercad.	Complete only Lesson 3 in the Let's Learn Tinkercad self-paced project. ● Watch teacher's technique video that corresponds with Lessons 3.	● Teacher can moderate student progress via Tinkercad dashboard.
Tuesday ● Review and refine Tinkercad skill-moves by completing self-paced lessons in Tinkercad.	Complete only Lesson 3 in the Let's Learn Tinkercad self-paced project. ● Watch teacher's technique video that corresponds with Lessons 3.	● Teacher can moderate student progress via Tinkercad dashboard.
Wednesday ● Review and refine Tinkercad skill-moves by completing self-paced lessons in Tinkercad.	Complete only Lesson 4 in the Let's Learn Tinkercad self-paced project. ● Watch teacher's technique video that corresponds with Lessons 4.	● 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)
Thursday ● **Live video class at 9:30** ● Review and refine Tinkercad skill-moves by completing self-paced lessons in Tinkercad.	Complete only Lesson 4 in the Let's Learn Tinkercad self-paced project. ● Watch teacher's technique video that corresponds with Lessons 4.	● Teacher can moderate student progress via Tinkercad dashboard.
Friday ● Watch Tinkercad tutorial on making organic shapes and brainstorm ideas for your own original design	● Tinkercad tutorial on making organic shapes	Student will watch video and respond to a question on EdPuzzle.

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

- Ss will complete some basic 3D modeling functions AND synthesize them to create well-designed models.
- Students will refine their CADing skills by completing some self-paced lessons in Tinkercad.

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 have my official office hours every day 1:00-2:00, when I will respond to student emails ASAP. But you can contact me at kiefer.michael@madisonps.org any time of the day.