

Grade 8

Distance Learning Module 2: Week of: 4/6/2020-4/9/2020

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 <ul style="list-style-type: none">• Finish up last week's Tinkercad lessons.	Tinkercad Students do the following activities: <ul style="list-style-type: none">• Creating Holes• Scale, Copy & Paste• Key Ring, Letters!• Die on the Workplane	<ul style="list-style-type: none">• Teacher can moderate student progress via Tinkercad dashboard.
Tuesday <ul style="list-style-type: none">• Watch videos posted to Google Classroom and respond to the question on the Classroom	World's First 3D Printed Heart Tortoise Gets New Lease on Life	<ul style="list-style-type: none">• Google Classroom Question assignment completion.

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
assignment.	ICON 3D Printed Homes	
Wednesday <ul style="list-style-type: none"> Watch videos posted to Google Classroom and respond to the question on the Classroom assignment. 	World's First 3D Printed Heart Tortoise Gets New Lease on Life ICON 3D Printed Homes	<ul style="list-style-type: none"> Google Classroom Question assignment completion.
Thursday <ul style="list-style-type: none"> Get more practice with essential Tinkercad functions by completing some slightly more advanced self-paced lessons. 	Tinkercad Students do the following activities: <ul style="list-style-type: none"> Die from Scratch Chess Pawn 	<ul style="list-style-type: none"> Teacher can moderate student progress via Tinkercad dashboard.
Friday GOOD FRIDAY		

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

- Ss will create a TinkerCAD account and complete some basic 3D modeling functions.
- Ss will consider the impact 3D printing has on our society by responding to a Question in Google Classroom.
- Ss will complete Tinkercad lessons that call on them to synthesize their CAD skills thus 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 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.