Grade 7 Distance Learning Module 4: Week of: 4/20/2020-4/24/2020

CTE: 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: 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:	Students will continue their podcasting unit by making a podcast that expresses gratitude to someone.
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Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Get more practice with essential Tinkercad functions by completing some slightly more advanced self-paced lessons.	 Tinkercad 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.
Tuesday: Get more practice with essential Tinkercad functions by completing some slightly more advanced self-paced lessons.	Tinkercad Students do the following activities: • Creating Holes	Teacher can moderate student progress via Tinkercad dashboard.

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	Scale, Copy & PasteKey Ring, Letters!Die on the Workplane	
 Wednesday Watch videos posted to Google Classroom and respond to the question on the Classroom assignment. 	How 3D printing is helping fight COVID-19 World's First 3D Printed Heart Tortoise Gets New Lease on Life	 Google Classroom Question assignment completion.
assignment.	ICON 3D Printed Homes	
	 Google Classroom Question: Now that you have watched four short videos about current uses of 3D printing technology, answer the following questions: 1) How can 3D printing technology help with solutions to some of the problems we face in our world. 2) While 3D printing can help solve problems, what negative effects could 3D printing have on job availability and the economy. 	
Thursday Live Zoom Class discussion 9:30- 10:00 	See Classroom Wednesday for Zoom URL.	 Zoom live attendance. Coogle Classroom Question
 Watch videos posted to Google Classroom and respond to the question on the Classroom 	How 3D printing is helping fight COVID-19 World's First 3D Printed Heart	 Google Classroom Question assignment completion.
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 Friday Get more practice with essential Tinkercad functions by completing some slightly more advanced self- paced lessons. 	Tinkercad Students do the following activities: Die from Scratch Chess Pawn	 Teacher can moderate student progress via Tinkercad dashboard.

Week criteria for success (attach student checklists or rubrics): Completion of Google docs in Classroom. Rubics will be available in Google Classroom.

- Students will successful export and turn in their Gratitude podcasts.
- 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): 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 <u>kiefer.michael@madisonps.org</u> any time of the day.

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 <u>kiefer.michael@madisonps.org</u> any time of the day.