Computer Aided Design

We worked hard to ensure that the Learning Plan provides accessibility for all learners. We hope that you see that there are options to engage learners at all levels. These activities are not intended to replace the normal school day. ***There is now an expectation for students to turn these documents in to your specific educators.*** We want you to take time to enjoy family, be safe, stay healthy and find time within this week to engage in learning opportunities. Feel free to create a schedule that works for you and your family. We strongly encourage each student to participate in approximately two hours a day. We want your brain working and challenging yourself, while staying safe and having fun. There are additional options for reading.

The Learning Activities Document only provides a brief description of the choices students have to demonstrate their learning. For access to the student documents, please go to GoogleClassroom. When finished, students can submit their work to their teacher on GoogleClassroom. If a parent would like to be added to the Google Classroom, please send an email to your student's teacher.

For Additional Information on Community Resources and Support See:
http://www.fairhavenps.org/cms/One.aspx?portalId=106528&pageId=27385241

Option 1: Continue working with Inventor.

In google classroom, I have uploaded instructions for downloading and installing Inventor for those that are interested and have a Windows based PC with an internet connection. There you will also find all of my video lessons and the book.

Additionally, you can check out TFI CAD tips. https://www.youtube.com/channel/UCF7zEkelSRiHB1rOnspaBgQ

Here, Neil has a ton of great content for Inventor. Can you find a video here covering content that you find interesting that isn't in my curriculum?

Are you up for a challenge? Check out Neil's Invusion CAD challenge and test your modeling skills:
https://www.youtube.com/watch?v=3LvT0gwk44c&list=PLMhqIwDF76hJtEgqi5D5PPVqxO7TMzF2z

Submit your work by emailing me a file.

Option 2: Check out Tinercad

This is an online CAD software also made by Autodesk. www.tinkercad.com

Can you make something with tinkercad? How does it compare with Inventor?

You can check out a few of these tutorials to help you out:

Getting Started in Tinkercad: A Tutorial for Complete Beginners https://www.youtube.com/watch?v=60xfIu-lqAs
How To: Use Tinkercad 3D Design Software 101 **https://www.youtube.com/watch?v=sh4o9k599pQ**

Submit your work by emailing me a link to work you have completed.

Option 3: Fusion 360

Autodesk Fusion 360 doesn't require as much computing power as Inventor. It can also run on a Mac. You can sign up for an account and download the software here: https://www.autodesk.com/education/free-software/featured

Can you make something with Fusion? How does it compare to Inventor?

Here are a few tutorials to get you started:

The Ultimate Fusion 360 Tutorial For Beginners: Installation, Sketches, Extrusions - Part 1
https://www.youtube.com/watch?v=dgwdJsnx5mg

Fusion 360 Tutorial for Absolute Beginners— Part 1 **https://www.youtube.com/watch?v=A5bc9c3S12g**

Submit your work by emailing me a file.

Option 4: Fire up the Google Machine

News flash: I don't know everything about CAD!!!

Can you find some interesting videos that cover any of the software packages listed above? What do you like about them.

If digital sculpting is more your style, can you find any cool videos covering Maya, ZBrush, and/or Substance painter? Bonus points for finding a tutorial series that demonstrates the workflow between all three!!!

Submit your work by sharing a Google doc with me. Make sure to include relevant links, images and commentary.

Option 5: Engineering solutions to COVID 19

Engineers all over the world are looking for solutions to provide supplemental PPE and other needs as we fight COVID 19. How are engineers and hobbyists modifying existing material (scuba masks etc.) and utilizing 3D printers to help? Fire up your google machine learn how innovation is helping during this crisis.

Submit your work by sharing a Google doc with me. Make sure to include relevant links, images and commentary.