



PLTW Virtual Learning

7th and 8th Grade Design and Modeling

May 6, 2020



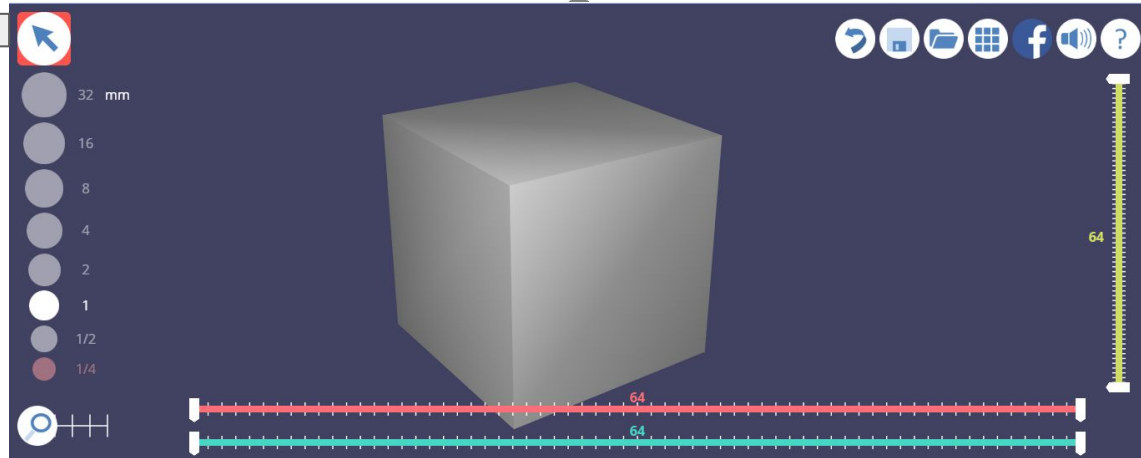
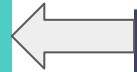
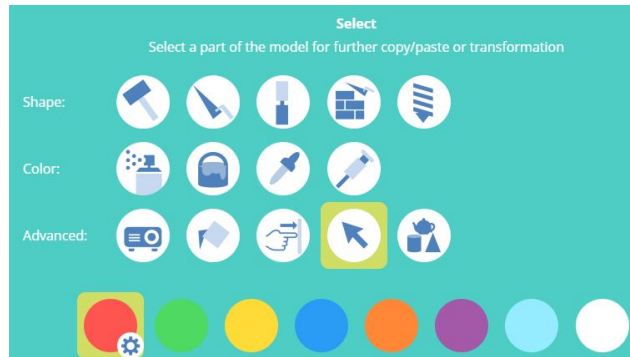
Lesson 22: 3D Modeling Day 3

Objective/Learning Target:

Students will understand basic navigation of multiple computer-aided design softwares.

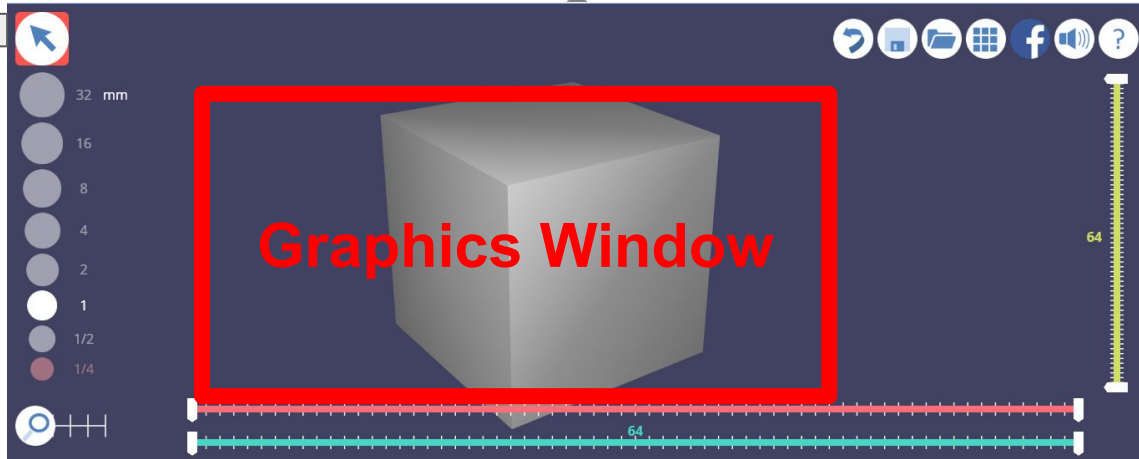
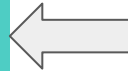
Warm-Up:

Get out your notes. Label the graphics window, viewing tools and tool bar on the image.



Warm-Up: Answer

Get out your notes. Label the graphics window, viewing tools and tool bar on the image.



Lesson Introduction/Background Information:

Today we are going to explore 2 different free online 3D modeling programs. Add what you learn about each to your notes.

[3D Slash](#)



[Tinkercad](#)




Note: None of these will require you to download anything. However, many of these programs will need you to login with an email account to use them, this helps to save your progress.

Practice:

Start with Slash 3D. The first time you open it a tutorial will pop up. Scroll through to see the basic commands.

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The screenshot shows the 3D Slash software interface. On the left, there is a vertical toolbar with various tool icons and a scale in millimeters (mm) ranging from 0.6 to 32. The main workspace displays a 3D model of a stonecutter, surrounded by several white cubes. On the right side of the interface, there are icons for undo, redo, home, and a heart icon. At the bottom of the interface, there is a video player control bar with a play button, a progress bar showing 00:35, and the Vimeo logo.

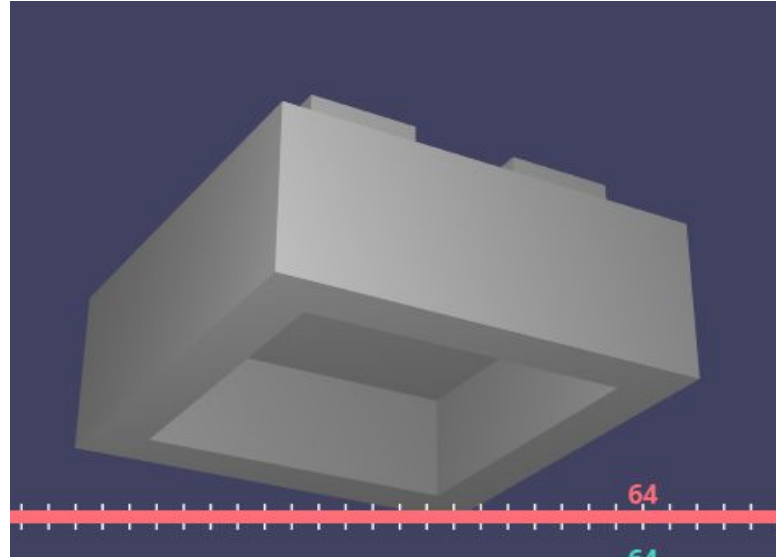
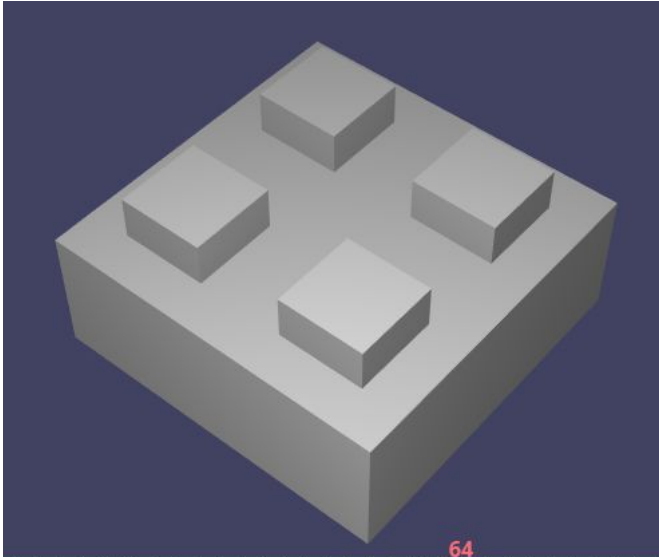
Welcome to 3D Slash!

In 3D Slash, you can create or edit 3d models like a stonecutter.
Click Next to discover the basic features.

NEXT

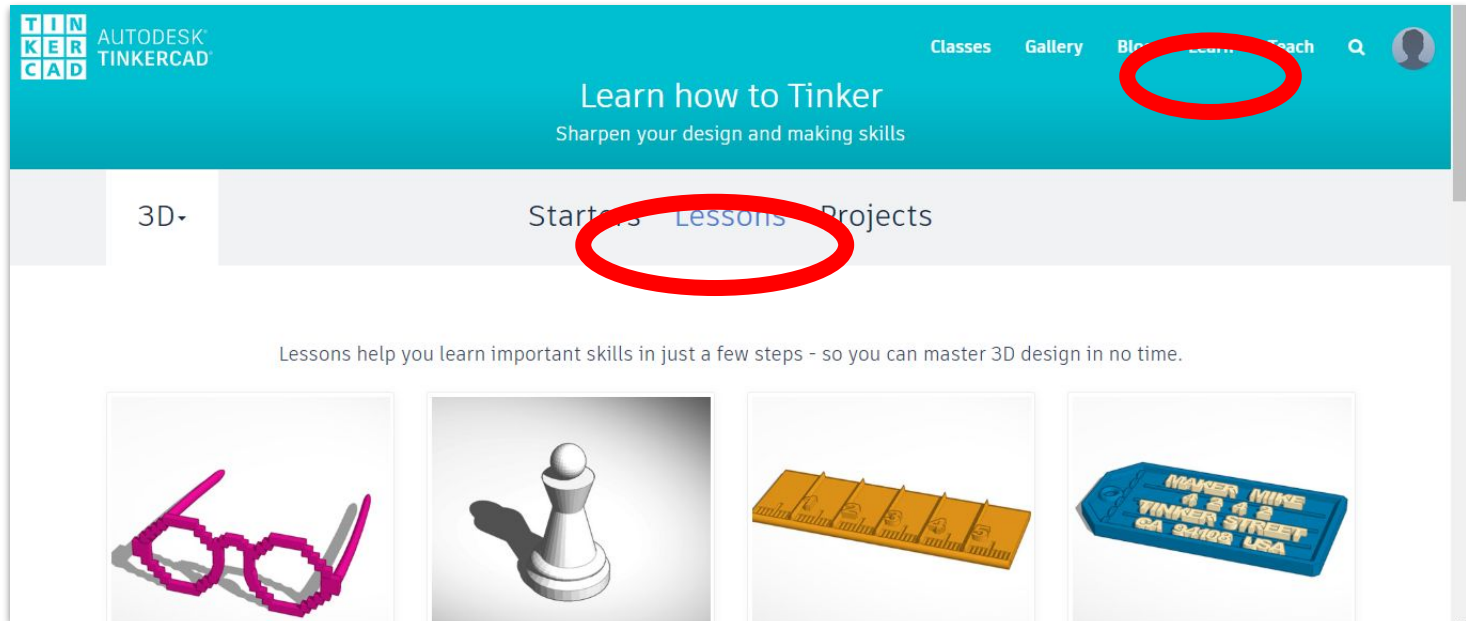
Practice:

Begin by drawing this shape and rotate the image so you can see these views.



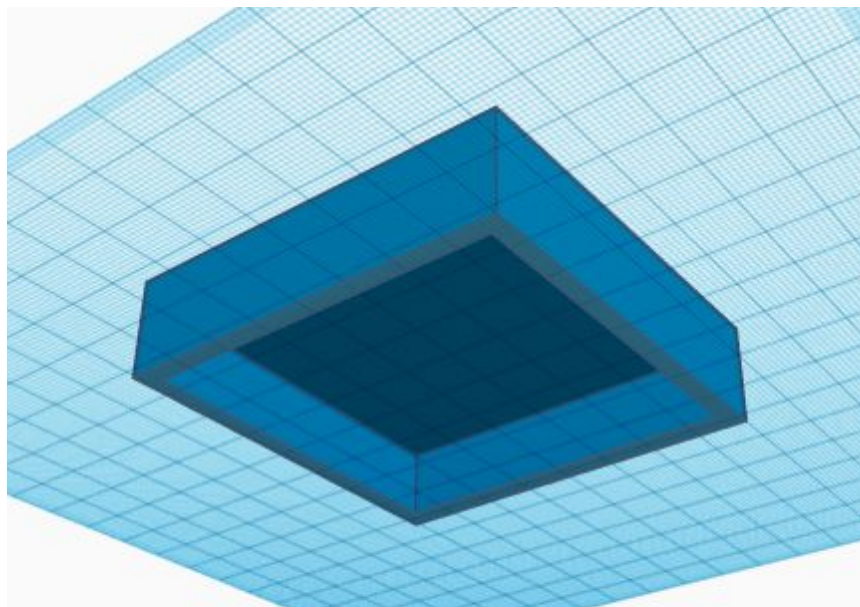
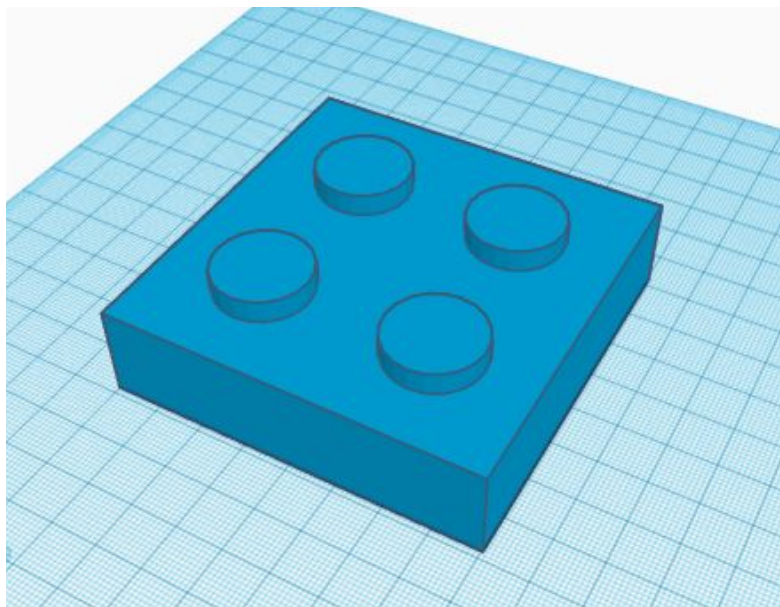
Practice:

Next move to Tinkercad. Once you have logged in, you will see the option “learn.” You can complete a lesson to learn basic commands.



Practice:

Begin by drawing this shape and rotate the image so you can see these views.



Self-Assessment:

Which program did you enjoy most using today? Why?

List the advantages and disadvantages of each program.

Extend Your Learning/Continued Practice:

Keep drawing! Continue practicing and using each of the programs we learned today.