

Tech Tuesday

Welcome to Tech Tuesday! One of the many technologies Girlstart empowers our girls to use is Google SketchUp. From architects to engineers, many careers use this software to create models and prototypes. Explore the basic tools within Google SketchUp and create your own 3D virtual masterpiece.

TEKS:

3.6C Create two-dimensional figures, including circles, triangles, rectangles, and squares, as special rectangles, rhombuses, and hexagons

3.6D Identify two-dimensional shapes, including circles, triangles, rectangles, and squares, as special rectangles, rhombuses, and hexagons and describe their attributes using formal geometric language

3.6E Identify three-dimensional solids, including spheres, cones, cylinders, rectangular prisms (including cubes), and triangular prisms, and describe their attributes using formal geometric language

How To

Materials:

- Computer
- Mouse (not required but is easier to use)
- Access to the internet (only if Google SketchUp isn't already
- downloaded)

1. Start by downloading Google SketchUp to your computer by going to the link below (ask permission before downloading software):

http://google-sketchup.en.softonic.com/

- 2. Click on the green Free Download button. It should take 1-2 minutes for the download to complete. Step through the set up wizard. When it is finished Google SketchUp is ready to use.
- 3. Now that you have Google SketchUp downloaded and installed, it's time to learn the basics. Click on the SketchUp icon on your desktop. When the application opens click Start using SketchUp. If it is the first time you use the application, a screen will pop up asking you to choose a template before you can begin using SketchUp.



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How To Continued...

5. Now that you know the basics to Google SketchUp, channel your inner Product Engineer and design a toy prototype. Make sure to define the appropriate age group and functionality of your toy. Here are a few examples Girlstart's Summer Campers created:





Career Connection:

<u>Product engineers</u> are responsible for developing the concept of the product and the design and development of its mechanical, electronics and software components. Product engineers keep in mind cost, producibility, quality, performance, reliability, serviceability and user features. These product characteristics are generally all considering in the attempt to make the resulting product attractive to its intended market.

Resources: http://google-sketchup.en.softonic.com/



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