

Learning Target: I can create a basic house model using SketchUp.

Starter Questions: Notice any difference between the top and bottom images? Consider the overall appearance and feeling answer one of the following questions.

1. Which one looks more real? Why?
2. Which one impresses you the most? Why?

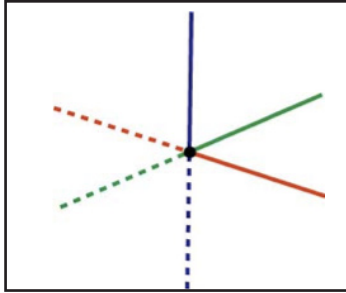
Vocabulary

Axis (Axes)
 Edge
 Face

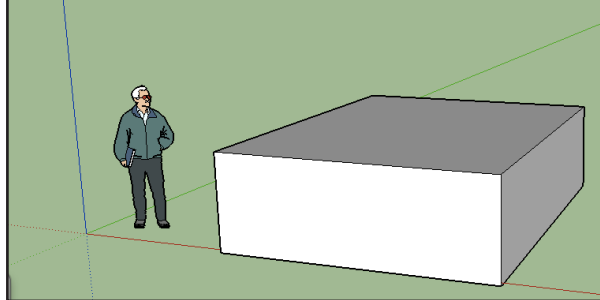
Tools

Orbit
 Rectangle
 Move
 Push/Pull
 Paint Bucket
 Pan
 Zoom
 Select
 Line

Label the X, Y and Z axes.



Indicate all "faces" and edges" in the box below.










What is SketchUp and what can it do?

Summary/Exit Questions:

1. How do you **select** a **single** item?
2. How do you **select** an **entire** object ?
3. How do you **delete** an item?

4. Match each tool with its correct description.

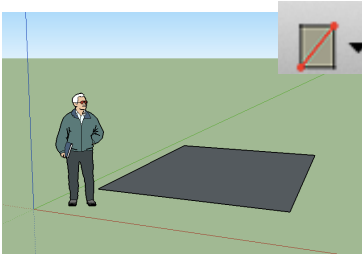
Tool	Description
 A. Rectangle	_____ Used to expand and shrink geometry
 B. Pull/Push	_____ Used to rotate the camera around the model
 C. Pan	_____ Used to move, distort(autofold), and copy entities
 D. Zoom	_____ Used to apply materials (combinations of color and texture)
 E. Orbit	_____ Used to move the camera (your view) vertically and horizontally
 F. Move	_____ Used to create, intersect, or divide a face or other line (edge)
 G. Paint Bucket	_____ Used to move the camera (your view) in or out

Additional Tools

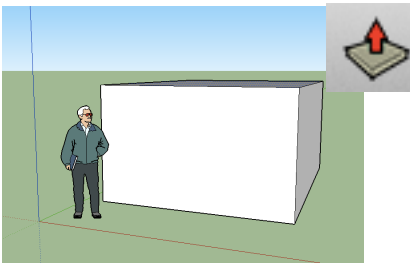


Creating a Simple 3D House in SketchUp

1. Use your Rectangle tool to draw a rectangle.



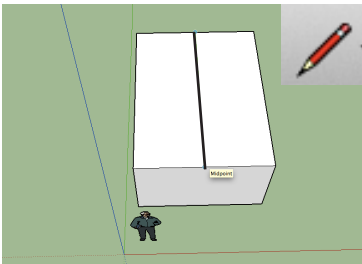
2. Use the Push/Pull tool to make the rectangle into a box.



3. Use the Orbit tool to rotate the object until you see the top of the house.



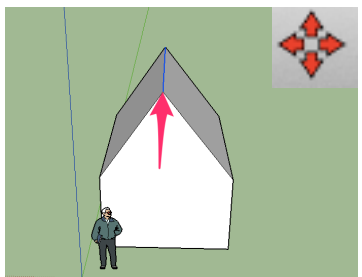
4. Use the Line tool and draw a line in the **midpoint** of the top face of the box.



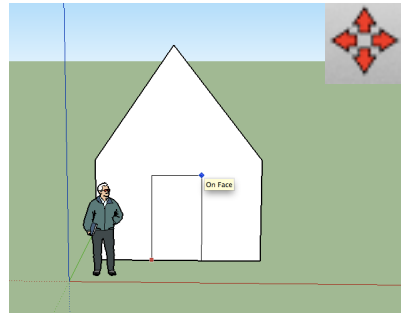
4. Use the Selection tool to select the new line.



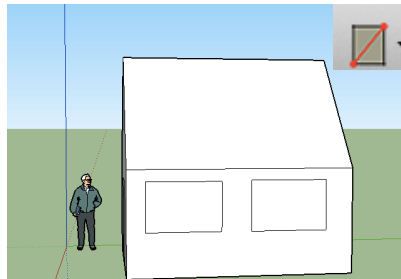
5. Use the Move tool to pull the line up. This makes the roof of your house.



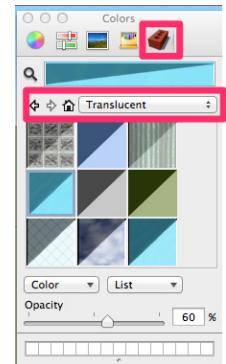
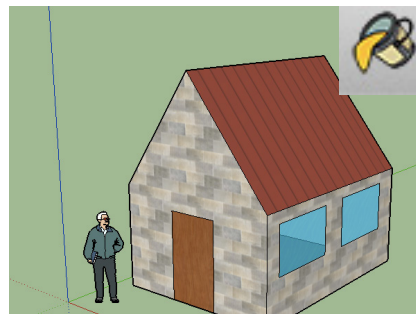
6. Create a rectangle for the door using the Rectangle tool.



7. Create 2 windows.

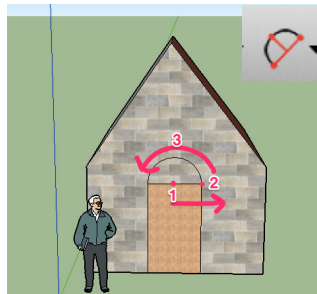


8. Use the Paint Bucket Tool, "Texture Palettes", to color your house. (Translucent looks great for windows.)

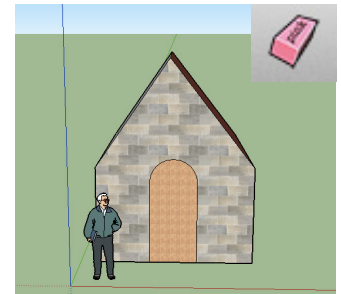


Extensions:

Create an arced door using the Arc tool and Eraser tool.



1. Create an ARC above the rectangle door. Start at the **midpoint**, then click the **end-point** and make a semi-circle.



2. Use the Eraser tool to delete the line between the rectangle and arc.