



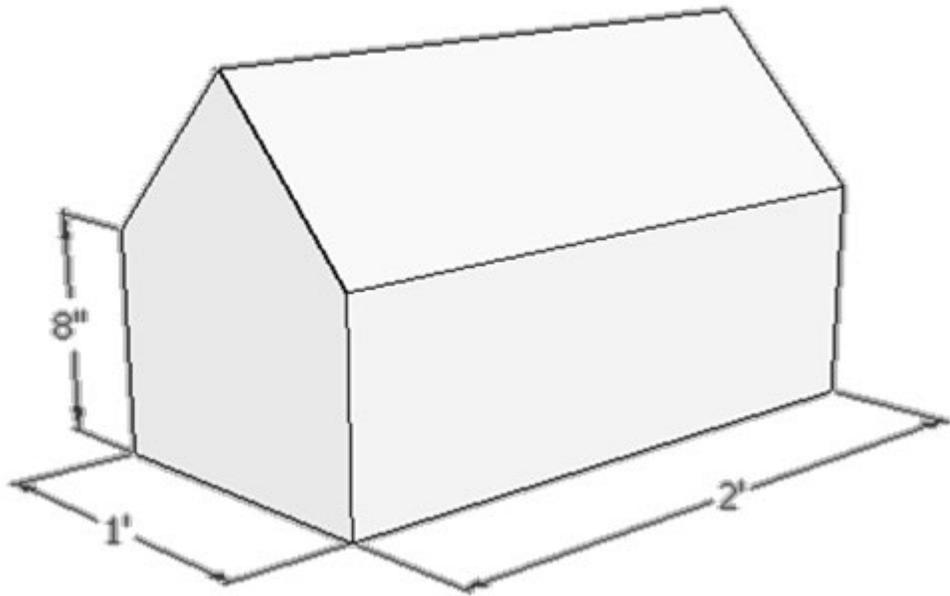
STEM WORKSHOP: MODULE 02

3D printed small house

Description:

Model a small house as instructed using SketchUp. Please use the following dimensions when modeling the house.

We will print a sample 3D house. The 3D printing process will be explained to you as part of the exercise.



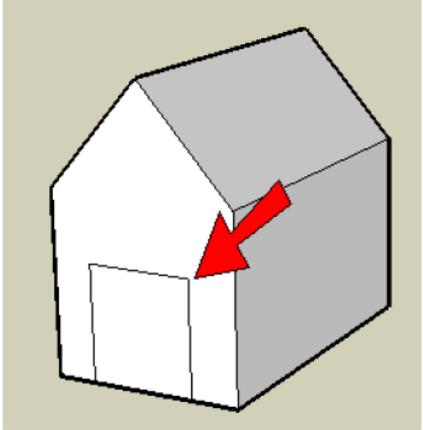
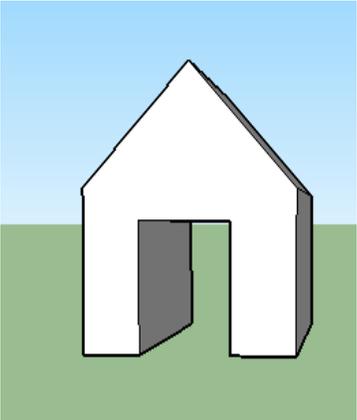
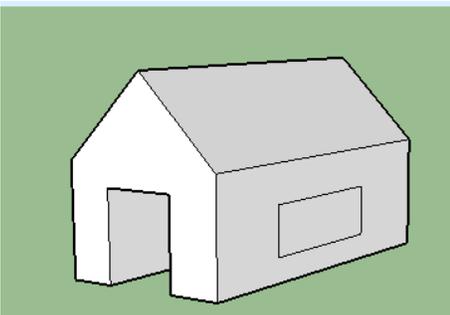


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<p>Step 1: Create the base</p>	<ul style="list-style-type: none"> • In the shapes tool; (pull down arrow and) choose rectangle • Click anywhere on the window closer to the green area • Click and move cursor slightly on the green axis • Type in 1',2' • Press return on keyboard 	
	<ul style="list-style-type: none"> • Click on the rectangle • Use the push/pull tool to pull up • While pulling up, type in 8" • Press return on the keyboard 	
<p>Step 2: Create the roof</p>	<ul style="list-style-type: none"> • Select the lines tool • Draw a line on the roof between the midpoints 	
	<ul style="list-style-type: none"> • Select the move tool • Pull midpoint line up to complete the roof 	



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<p>Step 3: Create the door</p>	<ul style="list-style-type: none">• Select the shapes tool; pull down arrow and select rectangle• Place a rectangle on the front of your house• Then use the push pull tool to push the door to the other side.	 A 3D perspective drawing of a white house with a grey roof. A white rectangular door is positioned on the front face. Two red arrows point from the door towards the right side of the house, indicating it is being pushed out.
	<ul style="list-style-type: none">• Now you can see into your house!	 A 3D perspective drawing of the white house with a grey roof, viewed from the front. The door has been removed, leaving a dark grey rectangular opening in the front wall. The house is set against a light blue sky and green ground.
<p>Step 4: Create a window</p>	<ul style="list-style-type: none">• Select shapes tool; pull down arrow and select rectangle	
	<ul style="list-style-type: none">• Place a rectangle on the side of your house• The use the push pull tool to push in a window similar to the door.	 A 3D perspective drawing of the white house with a grey roof, viewed from the side. A white rectangular window is positioned on the side wall. The house is set against a green ground.