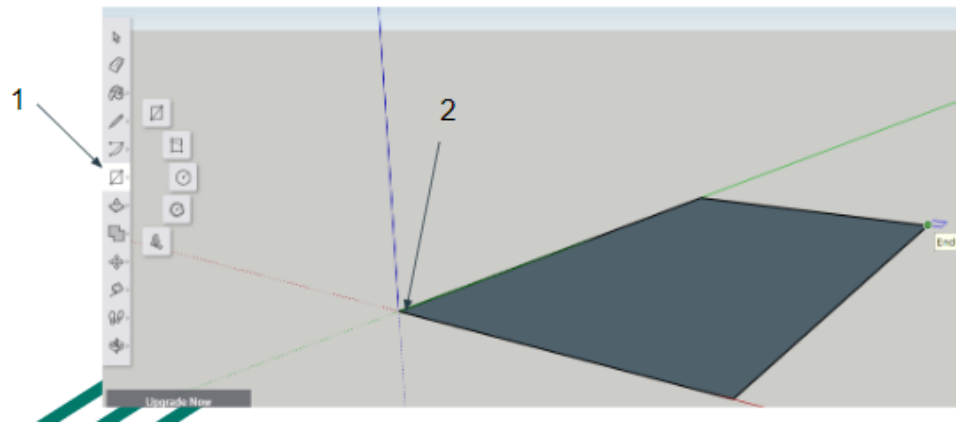
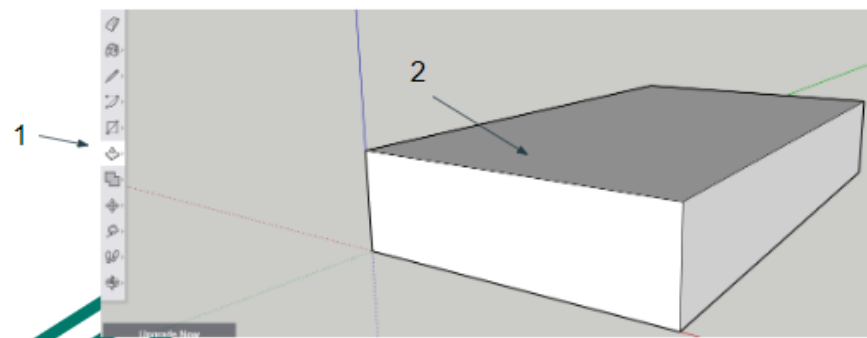


Lesson 1

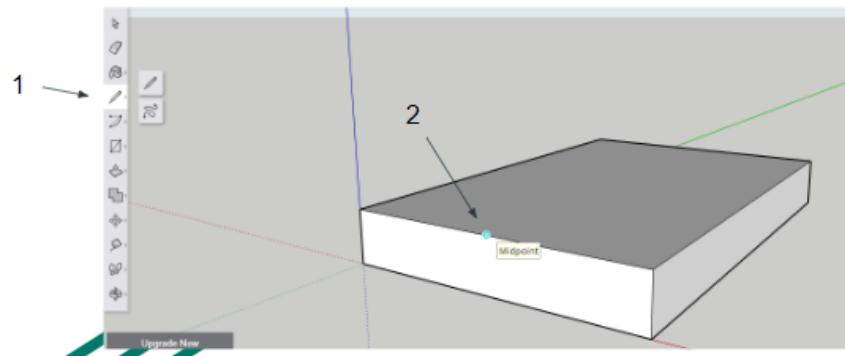
To begin with, select the rectangle tool (1). Click where the three axis meet (2) and then drag your rectangle out along the horizontal axis.



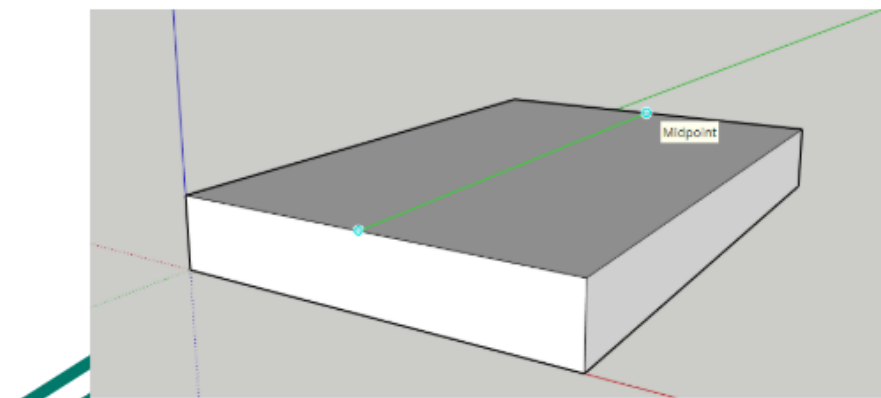
Use the Push/Pull tool to create a cuboid from your rectangle. 1. Select the Push/Pull tool. Click the side you want to pull and drag it upwards. The selected side should have a dotted surface.



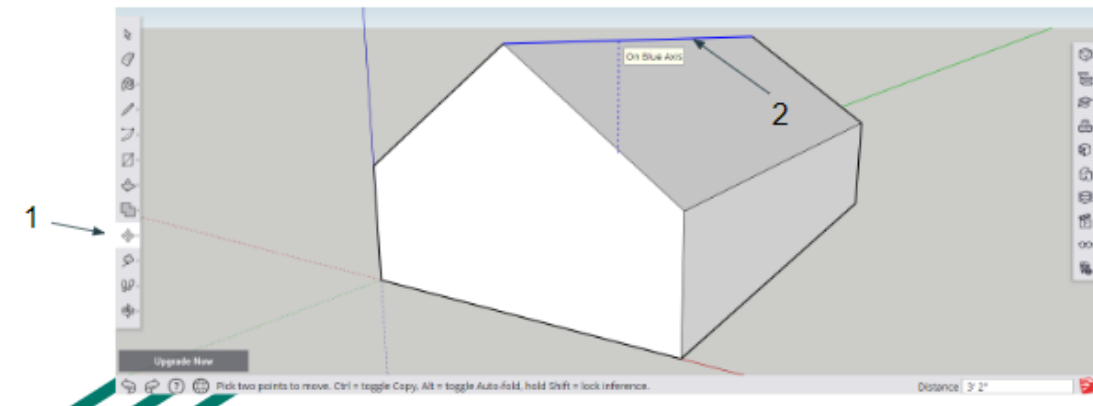
SketchUp will show you the midpoint of any line. 1. Select the Line tool from the menu. 2. Hover over the midpoint of the edge of your cuboid. You should now see a blue circle and a label saying midpoint.



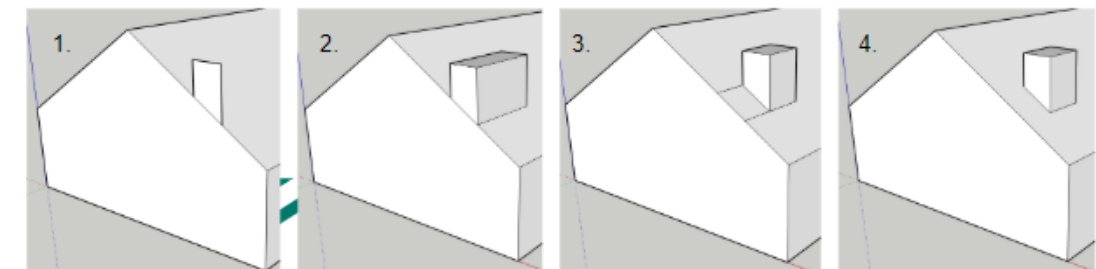
Click on the midpoint label and then move your mouse over to the opposite side. Find the midpoint on that side and click on it. You will now have drawn a line across your shape.



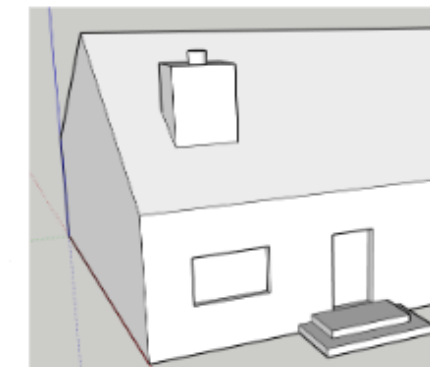
Use the Move tool to create a pitched roof. 1. Select the Move tool. 2. Hover over the line you have drawn. When it turns blue, click on it and drag your roof upwards. TIP: Use the blue dotted vertical line to make sure it is straight up and not leaning over!



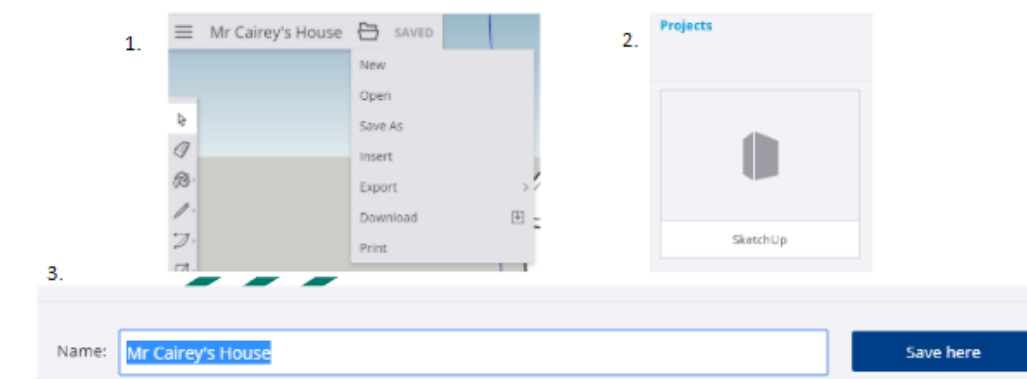
1. Use the Line tool to draw the end of a chimney stack. Make sure the vertical lines are blue and the horizontal are red.
2. Use the Push/Pull tool to make it 3D. 3. Push the foremost face back to move the chimney further on the roof.
4. Use the Eraser tool to delete the lines on the roof.



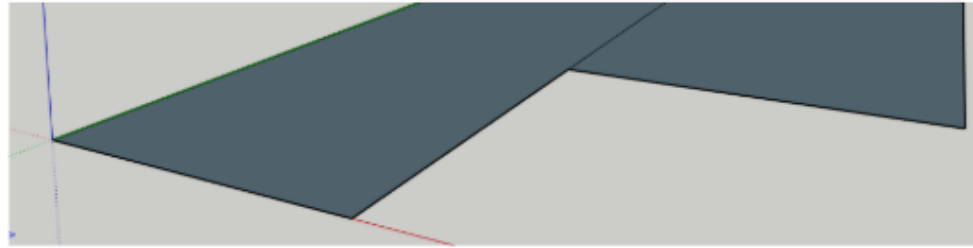
1. Use the Rectangle and Push/Pull tools to add steps, doors and windows. 2. Can you add a chimney onto the stack using the Circle tool and the Push/Pull tool?



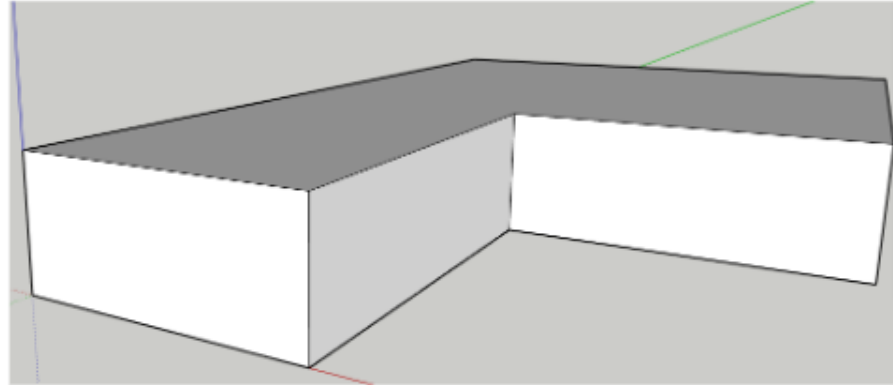
1. Click on the folder icon at the top of the screen and select 'Save As'. 2. Select 'SketchUp' 3. Give your project a name and click 'Save here'



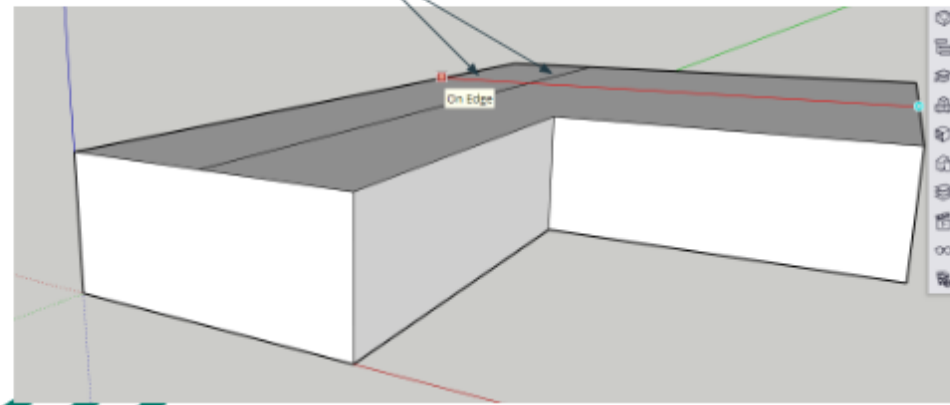
To begin with, select the rectangle tool. Then draw 2 rectangles like below. Use the eraser to delete the line between them.



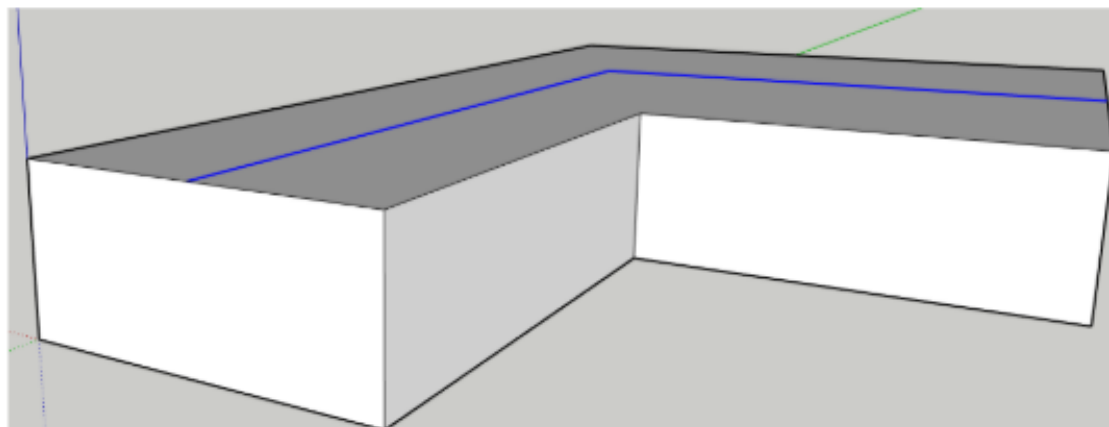
Use the Push/Pull tool to create a 3D shape.



Draw 2 lines across the top edge using the Line tool. Remember to use the midpoint labels to help like in the last lesson. Also make sure your lines are red and green when you draw them. Use the eraser to rub out these extra lines

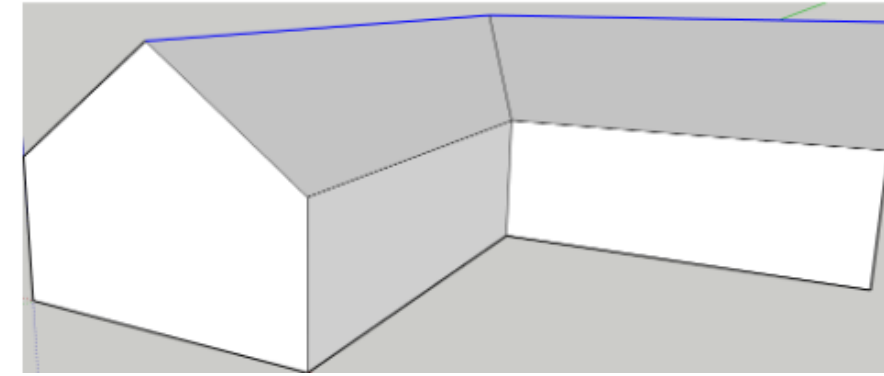


Click on the Select tool. Click on the 1st line you drew and then hold Ctrl on your keyboard and select the 2nd line you drew. They should both turn blue if you are successful:



Lesson 2

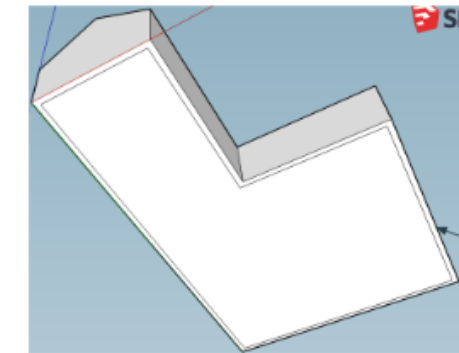
You can then use the Move tool to raise your roof.



Change the view using the Orbit and Zoom tool so that you are looking at the underside of your house. Then select the Offset tool. Click and hold on the bottom of your house. A new shape will appear that can be resized by dragging across your trackpad.

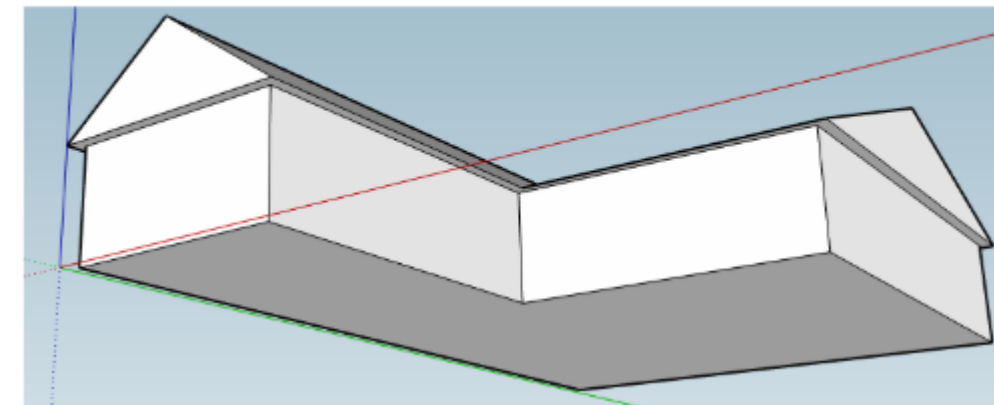


Offset tool

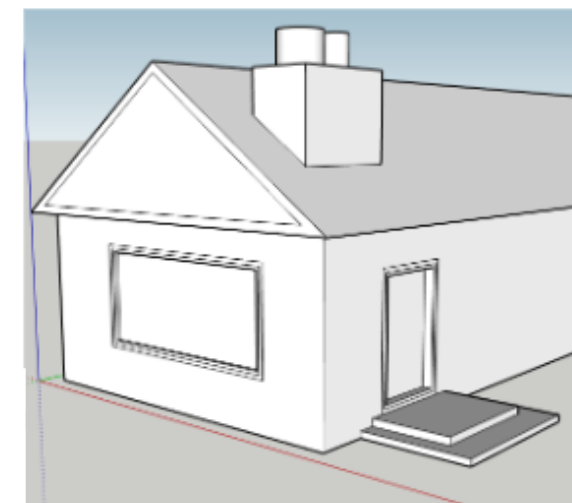


Use the Push tool and push the outside edge up (see next slide)

Push the outside up to create the following

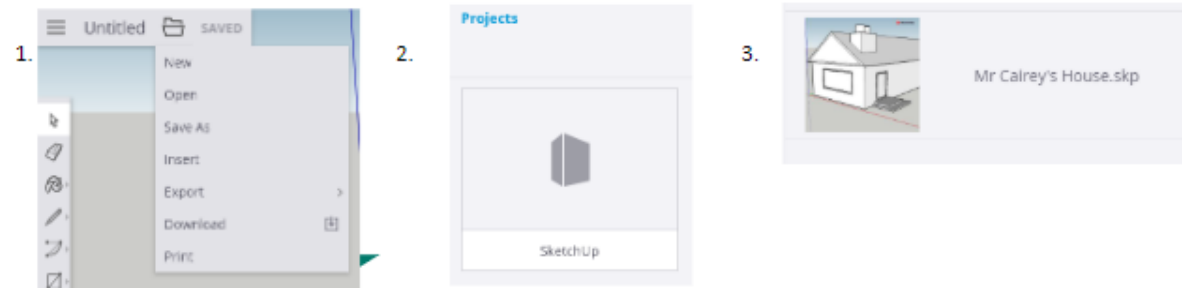


Use the Offset tool along with the Rectangle tool to create door frames and window frames



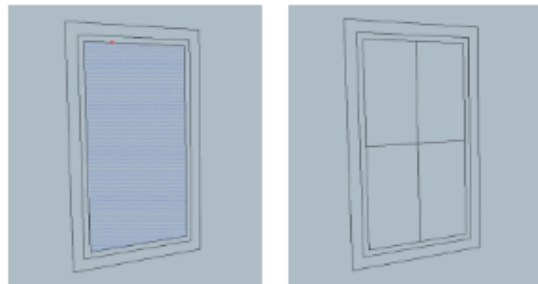
Lesson 3

1. Click on the folder icon at the top of the screen and select 'Open'.
2. Select 'SketchUp'.
3. Select your project from the last lesson

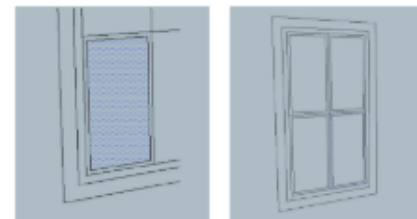


If you haven't already, finishing designing your house. Follow these instructions to create more detailed windows:

Draw lines from the midpoints across the window.

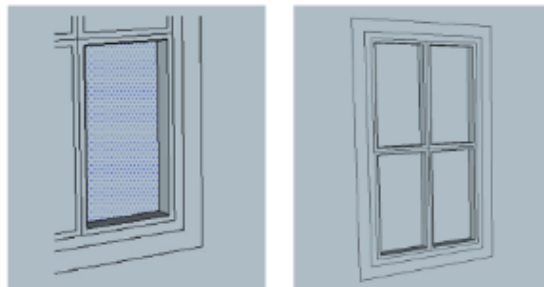


Select one corner of the window and create an offset 1cm inside. Then, select the next corner, use the Offset tool and double click inside the selected corner of the window. This will repeat the last offset.



Double clicking to repeat also works with when using the Push/Pull tool.

Push one window in 5cm, then double click on the other windows to push them in 5cm.

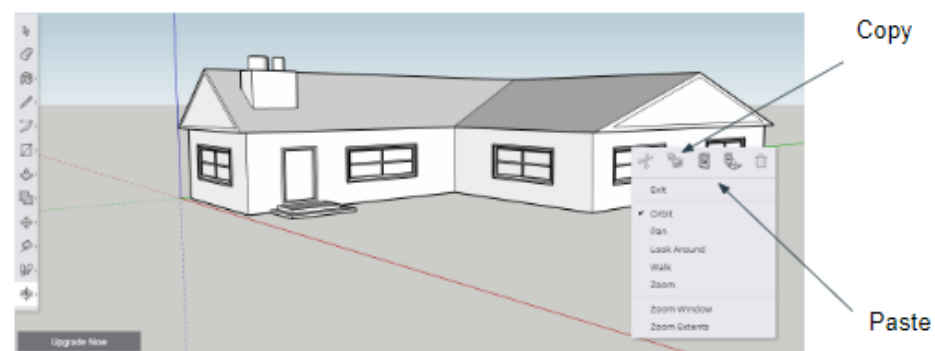


Heal the window frame and push the centre frame in a little.

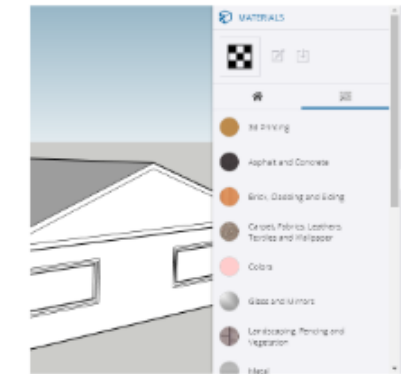


Pull out the outer frame to finish the window.

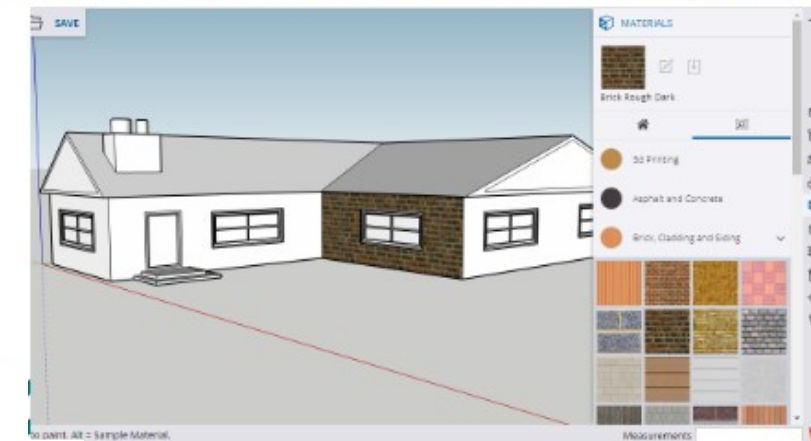
Once you have drawn one window, if you use the Select tool to highlight your window then you can right click on it and Copy it. Right click on the area you want your new window and then select Paste.



On the right-hand side of the screen are our decorating tools. Click on Materials and then the search icon. You now have a list of materials that you can select to decorate the outside of your house.



Click on the material you want and then click on the surface you want to decorate.



Have a play around. What designs can you come up with? What other features would you find on a house?



At the end of the lesson, take a screenshot of your house by holding the Ctrl, Shift and pressing the window switch key  above the 6

Once you've selected the area you want to screenshot (your house), share it with me by hitting the Share button

