CAD TUTORIALS

CVD TUTORIALS



CAD SKILLS

CAD Tutorial 22: Shipping Container House



Level of Difficulty



Time Approximately 50–60 minutes

DESIGN & TECHNOLOGY FACULTY

Starter Activity

Have a go at producing a mood board to help inspire your shipping container concept home design



Lesson Objectives...

- To understand the basic tools used in SketchUp.
- To understand the advantages of using CAD
- To be able to successfully use CAD independently to complete a range of tutorials in 2D and 3D
- To develop advanced skills and problem solving skills when using SketchUp

Lesson Outcomes...

By the end of this tutorial you will be able to...

- Use the push pull and move tool
- Learn about centre lines
- Create, Move and Rotate components
- Use the offset tool to make objects and add detail
- Shape and form your design
- Colour and render your design

Skills to be used in this project...

Basic Skills	New and Higher Skills	
Zoom tool	Rotate tool	
Orbit tool	Move tool	
Pan tool	Offset tool	
Line tool	Arc tool	
Rectangle tool	Follow Me tool	
Circle tool	Paint Bucket tool	
Eraser tool	3D Text tool	
Push/Pull tool	Making Components	

Basic skills are those required to do very basic drawings and are detailed as part of this presentation.

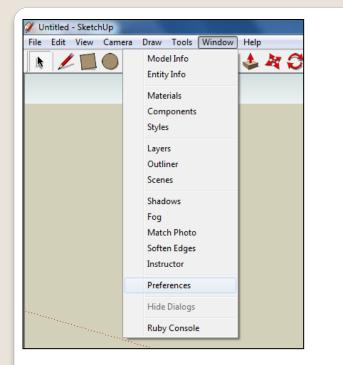
New and higher skills may be new to the novice and are the focus for learning in this presentation.



Visual : Presentation

Auditory: Video

Kinaesthetic: Demonstration



 Select Units and choose Decimal Millimetres. We are using this template because we are doing a product design.

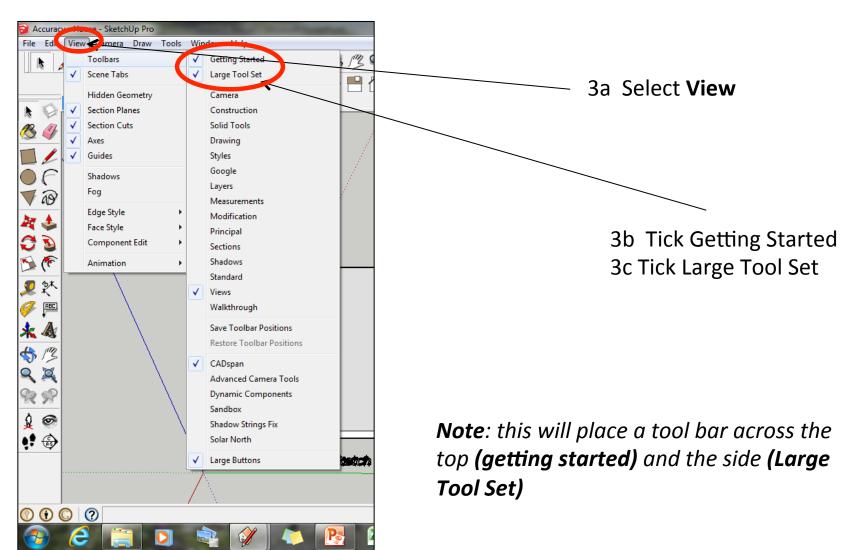
Note: It is often necessary to start a new file to use the new template. Go to *File* then *New*.

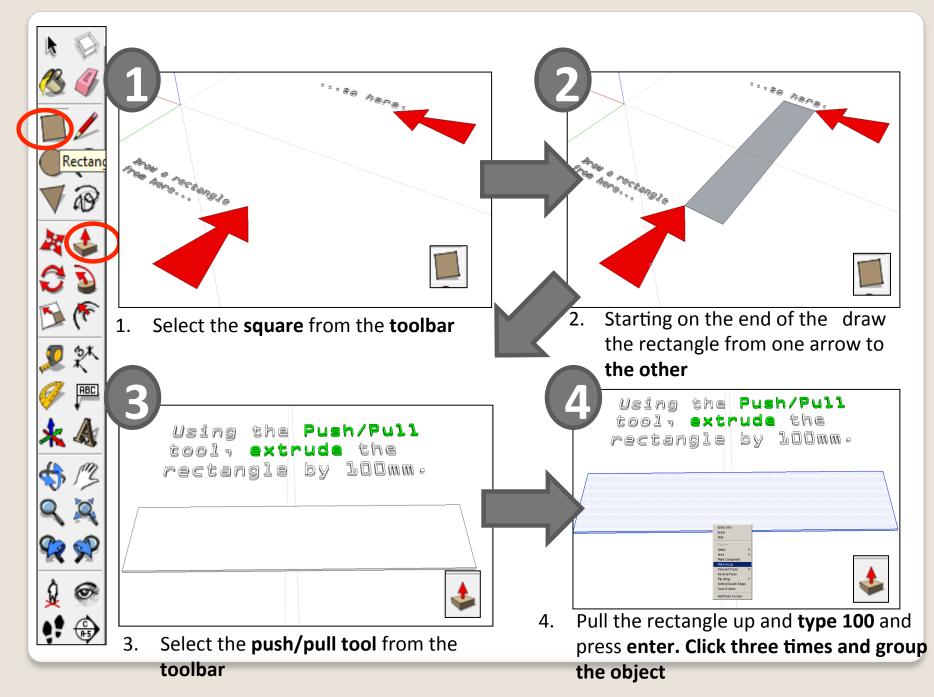
1. Open Library /Technology/ Mr Kenny/ Sustainable House/ CAD Skills// Lesson 1 House

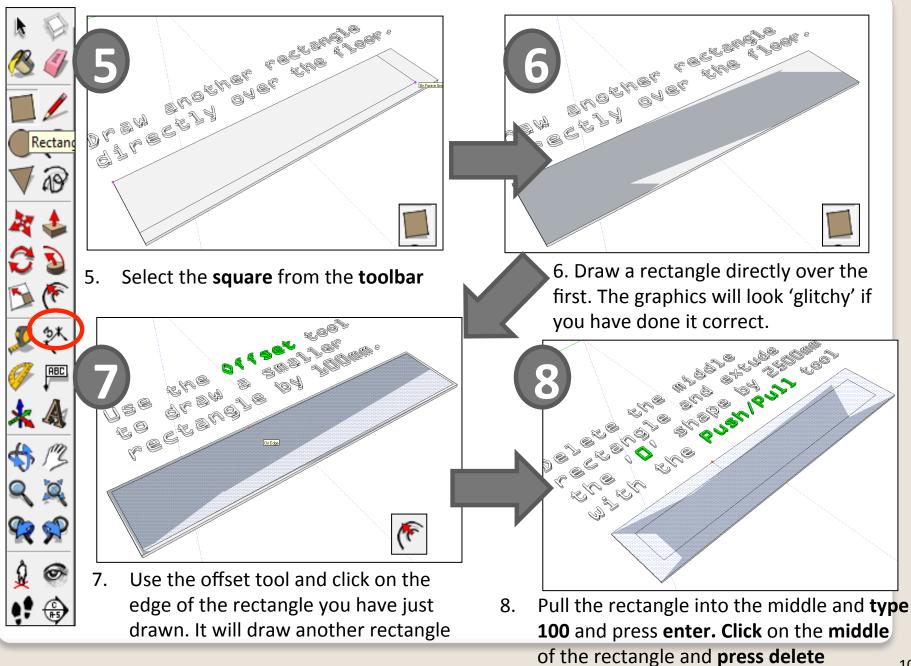
Open the sketch up drawing. Once you have opened SketchUp, go to **Window** and select **Model Info**

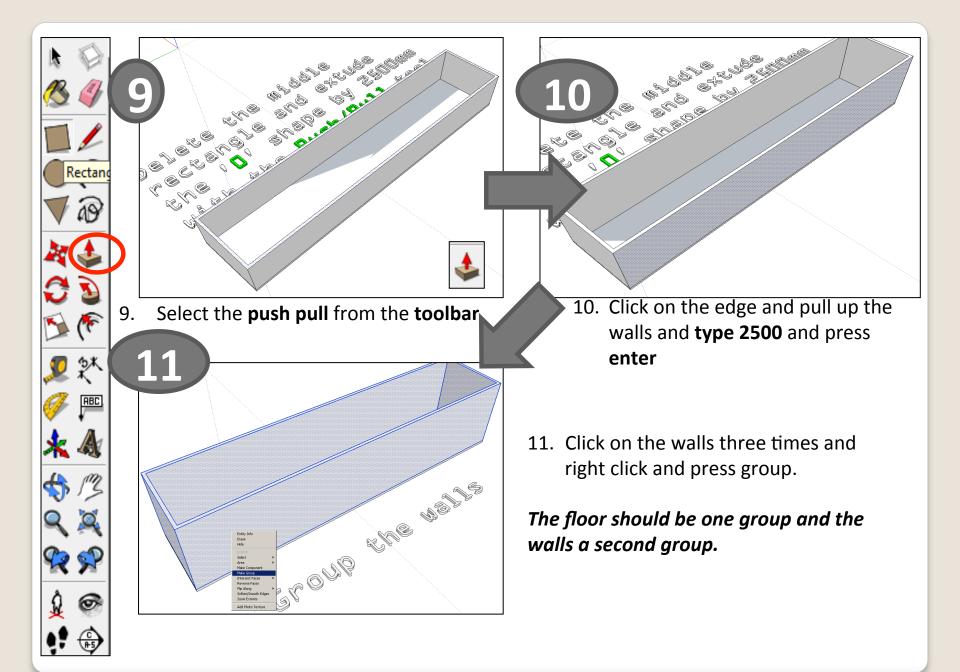
	use - SketchUp Pro / Camera Draw Tools Window Help	
Animation Components Credits Dimensions File Geo-location Rendering Statistics Text Units	Length Units Format: Decimal Precision: 0.0mm Image: The state of the stateo	
2		2

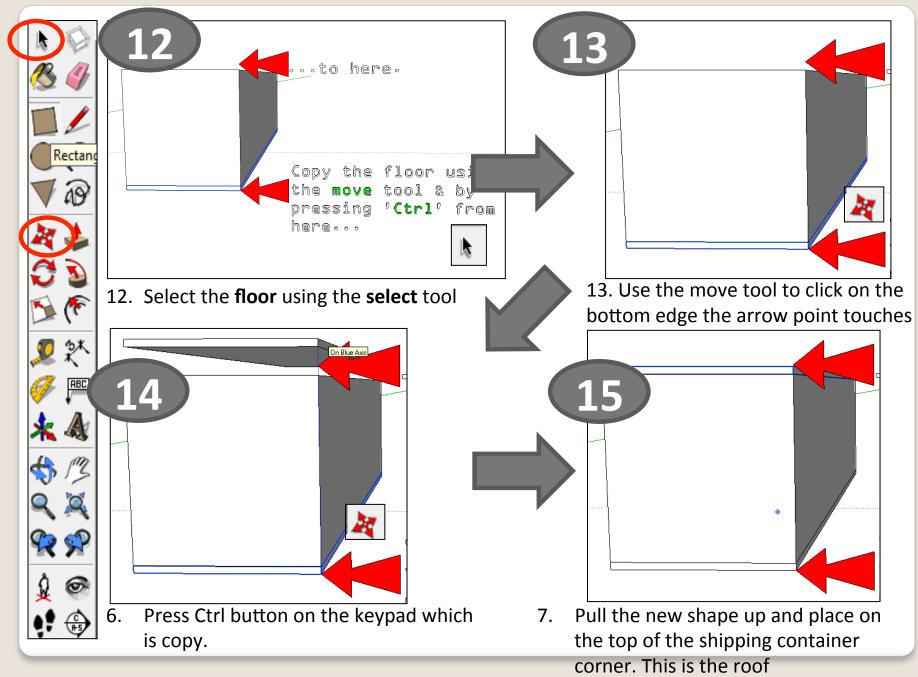
3. Now select the View then toolbars and ensure Getting Started and Large Tool Set are ticked

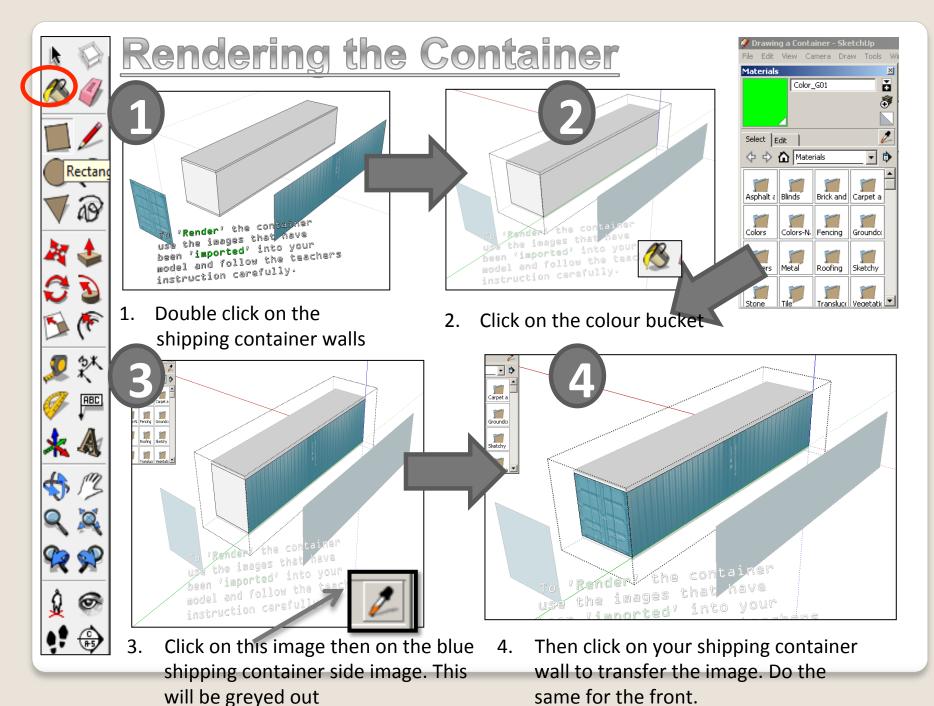


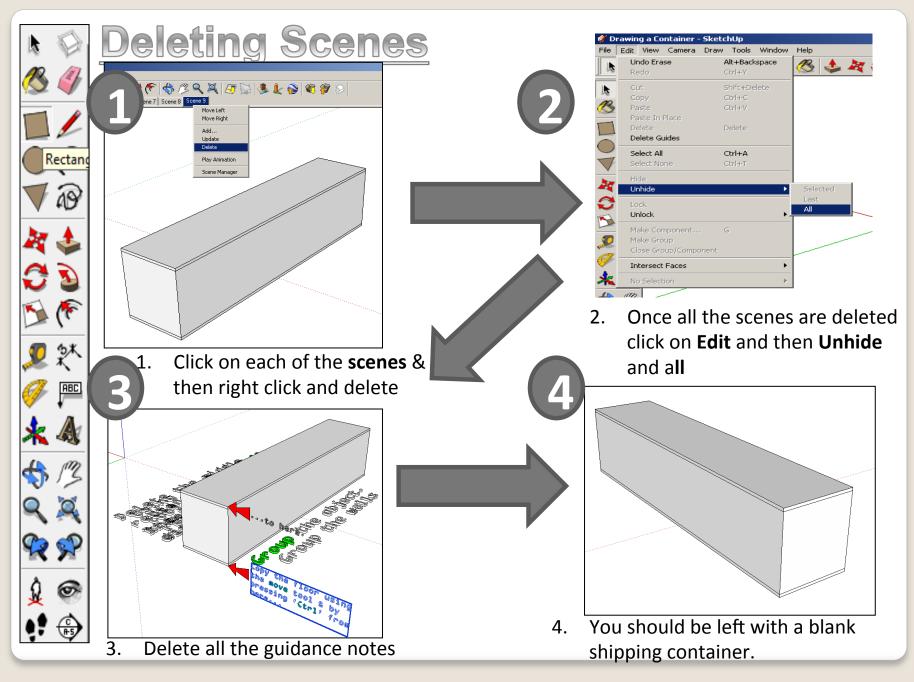


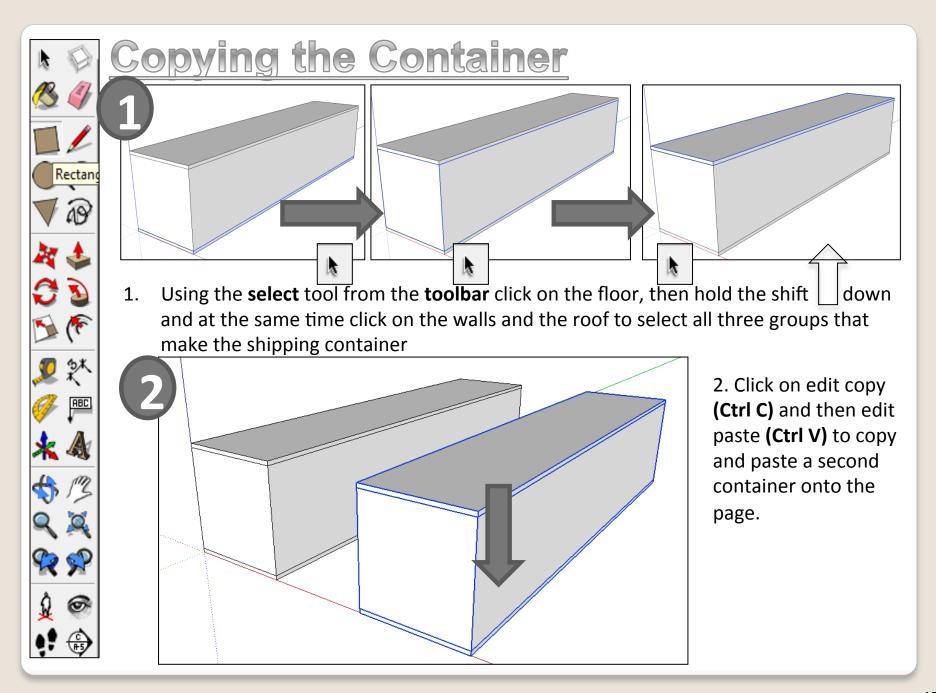


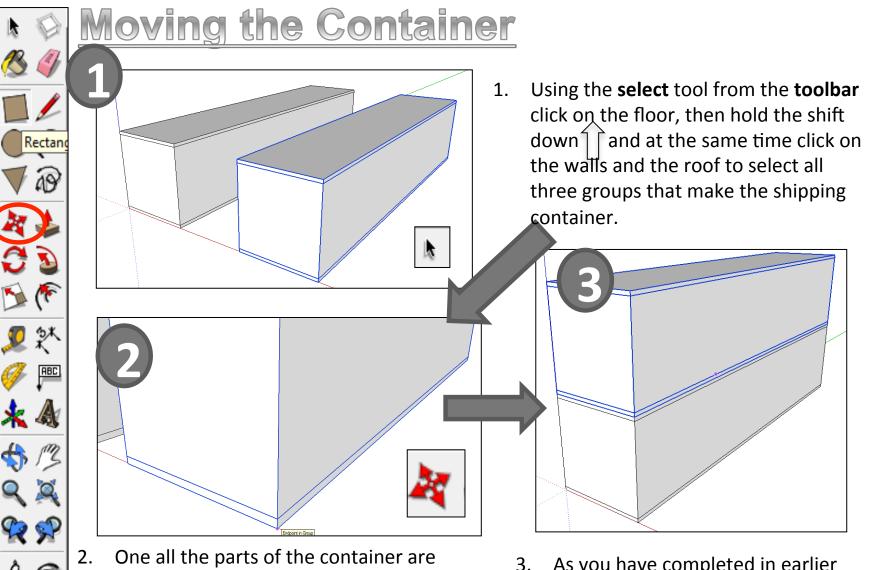




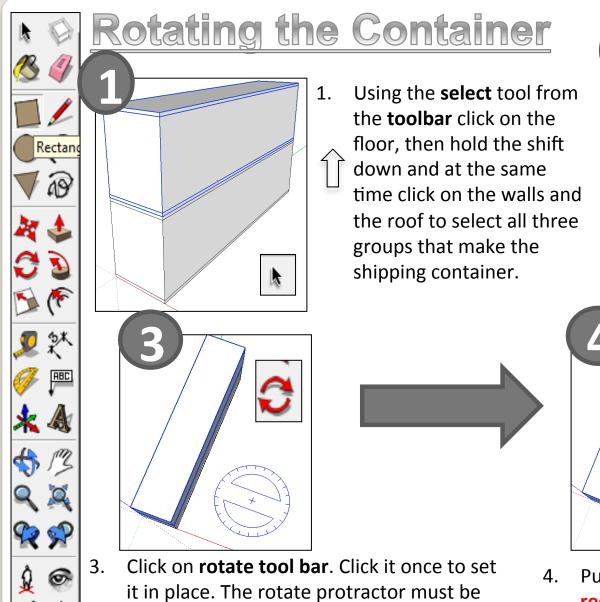








- 2. One all the parts of the container are highlighted select the move tool from the toolbar and the click on the corner of the container to move it
- As you have completed in earlier tutorials move the object from corner to corner.



- it in place. The rotate protractor must be BLUE when you click it into place, it does not have to touch the container
- Pull the line out so it goes green or red. Click it again to start rotating.

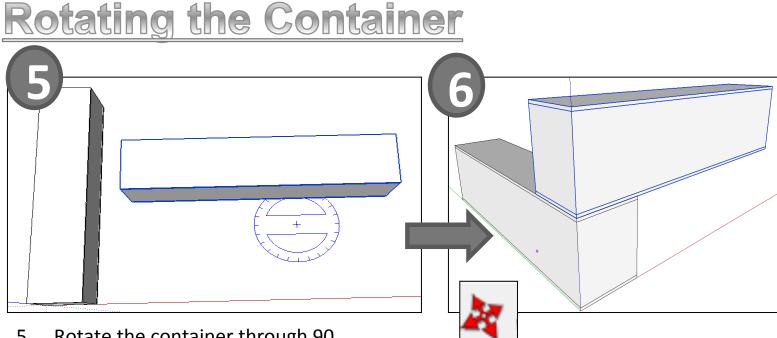
Orbit so you are above the

On Red Axis

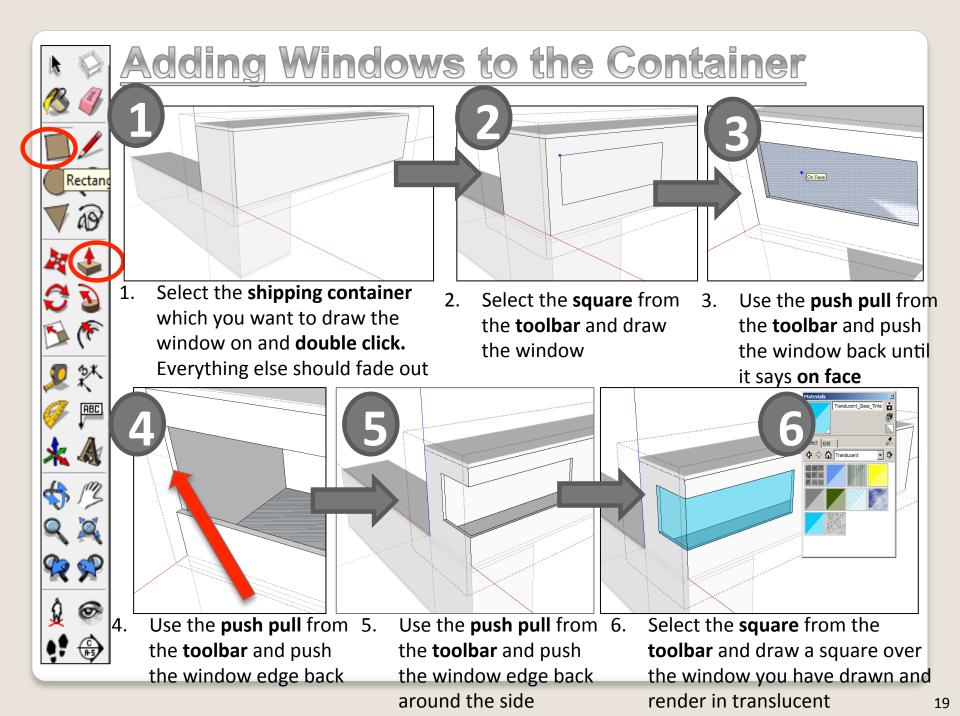
2.

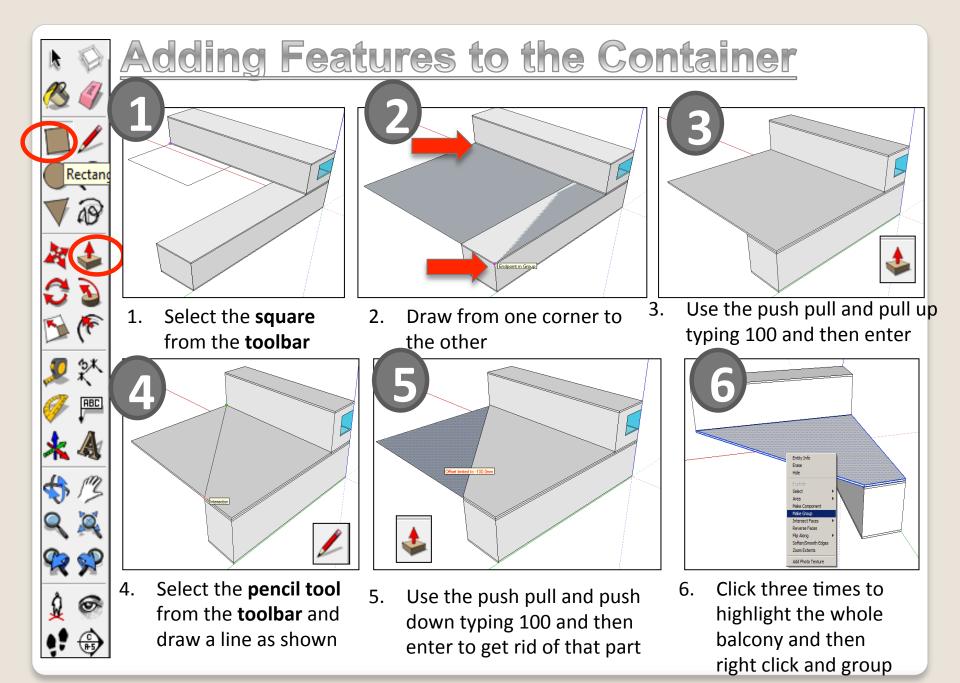
container

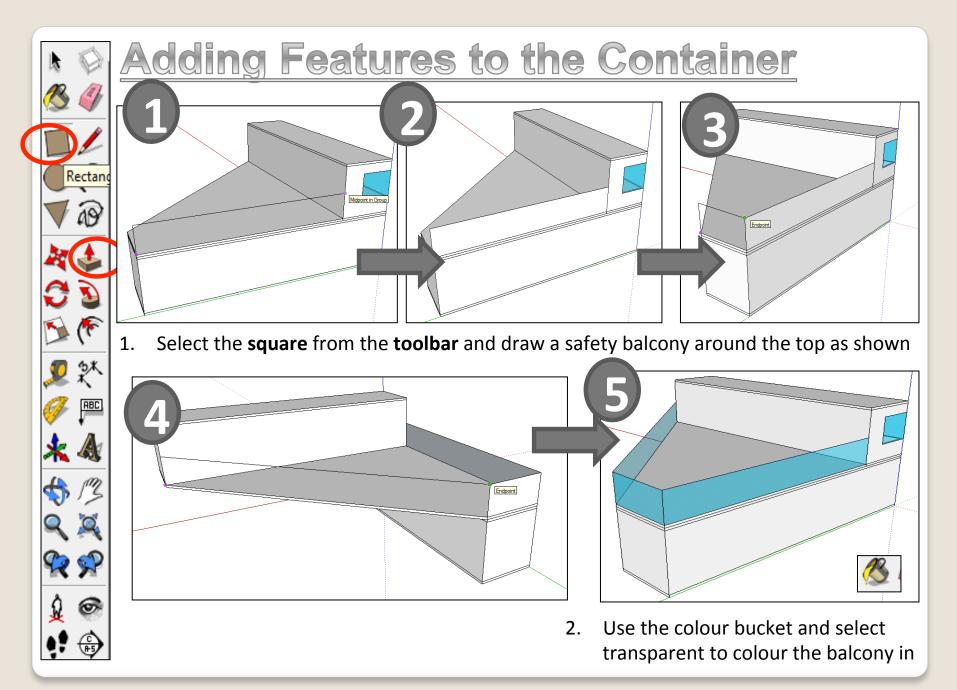


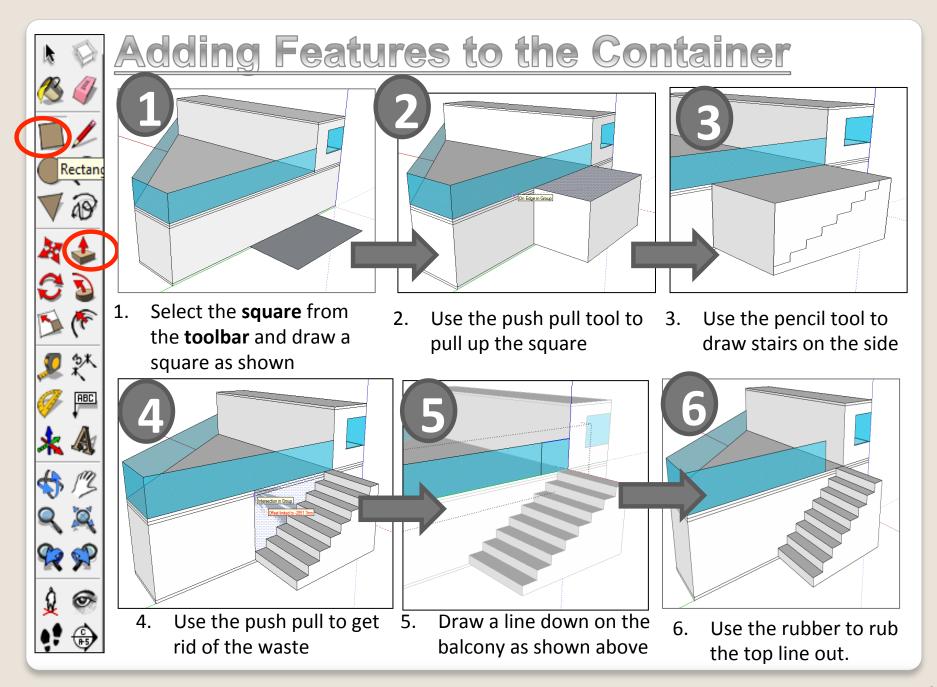


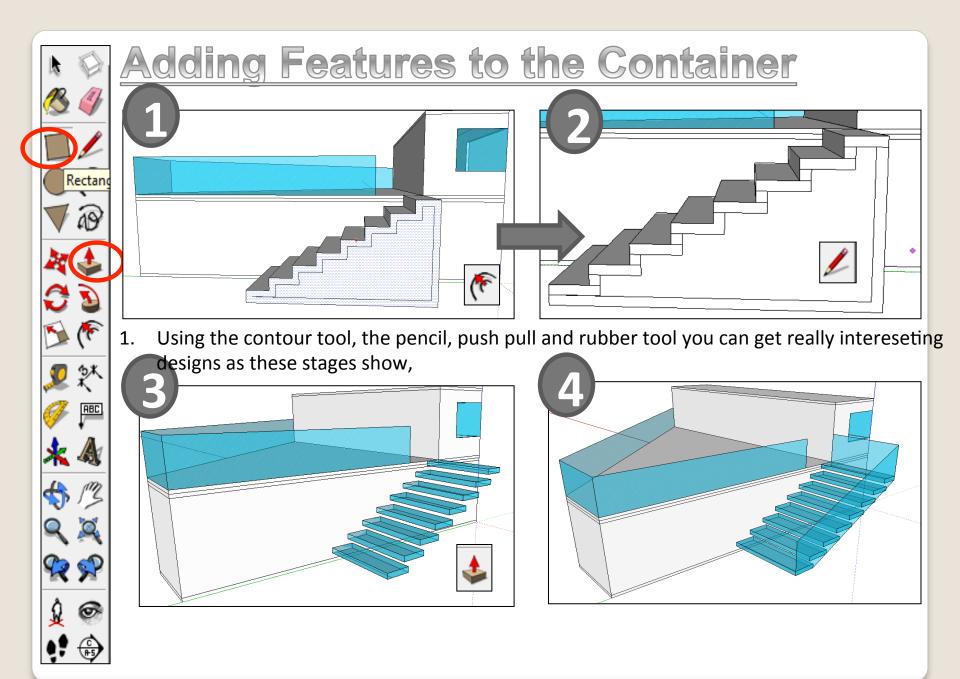
- . Rotate the container through 90 degrees watch the bottom right hand corner until it says 90 and click to set in place or alternatively type in **90** and press **enter.**
- 6. As you have completed in earlier tutorials move the object from corner to corner.











Extensions:

• Have a go at redrawing your own sustainable house. **Don't FORGET** to **INCLUDE** the **sustainable features** you have been researching that are suitable for your consumer.

