

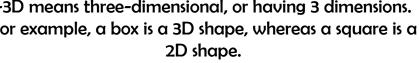
COMPUTING: CREATING MEDIA- 3D Modelling

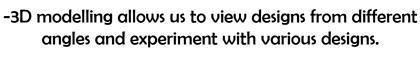


Overview

3D Modelling

- -3D means three-dimensional, or having 3 dimensions. For example, a box is a 3D shape, whereas a square is a 2D shape.
- -3D modelling involves using computer software to create 3D shapes, in order to produce models of realworld objects.
- angles and experiment with various designs.
- -3D modelling is used in many industries, e.g. in interior design, architecture and making video games.

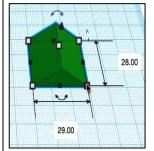




More Advanced Techniques

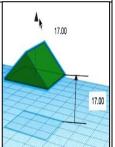


Duplicating: Click and drag around an object to ensure that it is selected. Then, click on the duplicate icon (see left) to create a copy.



Resizing: Objects can be manually resized by clicking and dragging on the handles around them. The dimensions are labelled.

Lifting: Use the ViewCube to change the viewing angle of the model to the front/ side. Then, use the cone handle in order to lift the object from the workspace.



Rotating: Selecting these handles allows us to rotate shapes. Drag the object to rotate it in different ways.

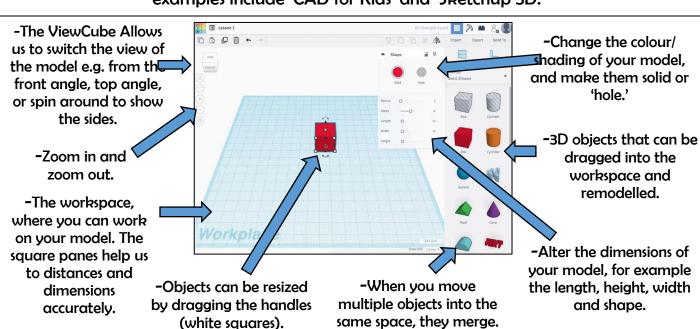
Combining Shapes Many complex shapes are made up of a number of 3D shapes – we can position and merge them together.



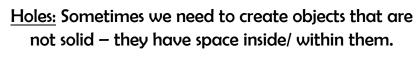
Text: You can add block text by selecting 'text' in the shapes. This can help you to enhance other shapes.

The Basics of 3D Modelling

'Tinkercad' is one example of software that we can use to create 3D Models. Other examples include 'CAD for Kids' and 'Sketchup 3D.'



Making Holes



- -To achieve this, begin by adding a 3D shape onto the workspace. Then drag one of the 'holes' shapes onto the workspace. Adjust dimensions accordingly.
- -Drag the 'holes' shape over the 3D shape as desired.
- -Click and drag a box around the shapes to select them.
- -Click the 'group' button to combine the shapes and create the hole.

Important Vocabulary

Modelling Three-Dimensional Workspace Faces Vertices Edges Handles Resize Position Hole Design Modify