



? What are we learning about TinkerCAD?

3D design is used in many ways to design 3D objects, including buildings, furniture and transport. 3D designers use CAD software (Computer Aided Design), which allows them to view 3D objects on a 2D screen by moving around the objects 360 degree. The software includes tools to add 3D objects and resize them, zoom in and out and other options to change the appearance. One piece of software we can use is TinkerCAD, which helps us design in 3D.



National Curriculum Content

Select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals.

Key knowledge

1. Understand 3D spacial awareness.
2. Add 3D shapes, resize, adjust height, duplicate and use the different perspective.
3. Re-create different types of buildings using 3D shapes.
4. Create roads/paths by adjusting the height of 3D shapes.
5. Add windows and door shapes.

ABCD Important Vocabulary

3D	Three dimensional - to see a shape from different angles and adding depth to a 2D (2 dimensional) object.
Workplane	This is the area in TinkerCAD where we add add the 3D designs. It looks like a grid on the floor and we can change the size of it.
Zoom	Move in and out of the workplane using the + and - to add more detail or see all of the design.
Perspective mode	This allows us to move the 3D cube in the top left corner and move around all parts of the workplane.
Orthographic mode	This allows us to quickly move to each side of the workplace to look at the faces of the 3D shapes. This is done by clicking the faces of the cube in the top left corner.



Quick tip

Change the numbers in the boxes of the cube shape for the width, length and height to the same number to make a perfect cube.

