



? What are we learning about 3D Design?

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.



National Curriculum Content

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



Key knowledge

- Understand and place 3D space on a grid to match another design.
- Re-create or design familiar 3D models using cubes, such as tables and chairs.
- Use chisel tool to improve and adapt models.
- Colour individual blocks or whole models.
- Apply 3D skills to your own design.

3D Design



Important Vocabulary

 3D	Three dimensional, to see a shape from different angles and adding depth to a 2D (2 dimensional) object.
 Rotate	Turn 3D objects such as a cube to see the different faces of it and edit each face.
 Zoom	Zoom in on an object to see more detail or zoom out to see more of the whole design.
 Grid	The grid helps you position the 3D objects accurately and adjust their size. You can change the size of the squares in the grid if you are using small or larger shapes.
 Chisel, Hammer and Trowel	The trowel builds one cube at a time and the hammer removes one cube at a time. The chisel slices cubes.
 Spray	Change the colour of individual cubes.
 Bucket	Fill all connected shapes with a colour.