

Purple Mash Computing Scheme of Work: Knowledge organisers

Unit: 5.6 3D modelling

Key Learning

- To be introduced to 2Design and Make and the skills of computer aided design.
- To explore the effect of moving points when designing.
- To understand designing for a purpose.
- To understand printing and making.

Key Resources



Key Vocabulary

CAD – Computer aided Design

A CAD computer program or app allows you to design a 3D object or environment in 2D and visualise it in 3D on the screen from many angles.

Modelling The activity of making

models.

3D Something that has

three dimensions;

height, width and depth.

A person's opinion or point of view.

Viewpoint

Polygon

An object with at least three straight sides and angles, and typically five or more.

2D

Something that has only two dimensions; height and width.

Net

A pattern that you can cut and fold to make a model of a solid shape.

3D Printing

The action or process of making a physical object from a threedimensional digital model, typically by laying down many thin layers of a material in succession.

Points

An exact position or location on a 2Dsurface.

Template

Something that serves as a model for others to copy.





