

Phase: 5/6

Subject: Computing

Focus: 3D Modelling 5.6

Term: Summer

Prior Learning.

LKS2:

Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital 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, including collecting, analysing, evaluating and presenting data and information.

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.

Viewpoint

A person's opinion or point of view.

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 three-dimensional digital model, typically by laying down many thin layers of a material in succession.

Points

An exact position or location on a 2D surface.

Template

Something that serves as a model for others to copy.

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 design a 3D Model to fit certain criteria.
- To refine and print a model.

Key Resources



2D&M

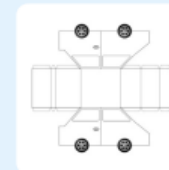
Key Images



2D Image



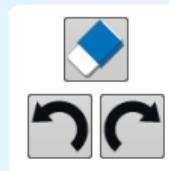
3D Image



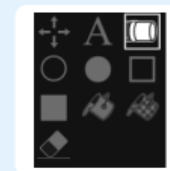
Net View



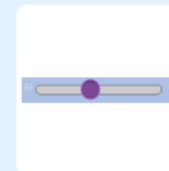
Colour Palette



Clear, Undo and Redo



Fill Options



Magnify