

# Year 5 3D Modelling Knowledge Organiser



Information Technology: (Year 4) making music, animations, using browsers for effective searches and using IT to write for different audiences

Information Technology: (Year 6) spreadsheets, blogging and quizzing using online programs

## Star 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.

**2D:** Something that has only two dimensions; height and width.

**3D:** Something that has three dimensions, height, width and depth.

**Viewpoint:** A person's opinion or point of view.

**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.

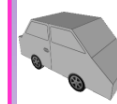
## Key Learning

- 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.

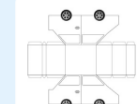
## Key Resources



## Key Images



3D Image



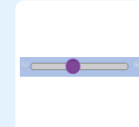
Net View



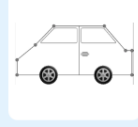
Colour Palette



Fill Options



Magnify



2D Image



Clear, Undo and Redo

To introduce 2Design and Make

Designing a 3D model for a Purpose

To make a 3D model using a printed net

To move points of a given vehicle to explore how to change a design

To print the net of a 3D model design