

PURPLE MASH COMPUTING SCHEME OF WORK - KNOWLEDGE ORGANISER

Unit: 5.6 – 3D modelling



Key Learning

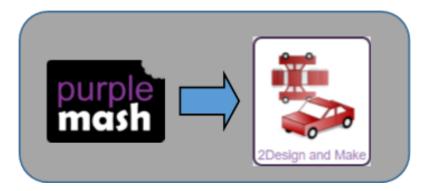
To be introduced to 2Design and Make and the skills of computer aided design.

To explore the effect of moving points when designing.

To understand designing for a purpose.

To understand printing and making.

Key Resources



Key Vocabulary

<u>CAD – Computer aided Design</u> – 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.

<u>**3D**</u> – Something that has three dimensions; height, width and depth.

Viewpoint - A person's opinion or point of view.

<u>Polygon</u> - An object with at least three straight sides and angles, and typically five or more.

<u>2D</u> – Something that has only two dimensions; height and width.

<u>Net</u> - A pattern that you can cut and fold to make a model of a solid shape.

<u>**3D Printing</u>** - 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.</u>

Points - An exact position or location on a 2Dsurface.

<u>Template</u> - Something that serves as a model for others to copy.



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