PURPLE MASH COMPUTING SCHEME OF WORK - KNOWLEDGE ORGANISER





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>

<u>Points</u> - 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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Unit: 5.6 – 3D modelling



