

Year 5 - Modelling

Knowledge Organiser

Key Learning
<ul style="list-style-type: none"> 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 and definition	
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.
Viewpoint	A person's opinion or point of view.
Template	Something that serves as a model for others to copy.

Images			
2D Image 	3D Image 	Net View 	Colour Palette
Clear, Undo and Redo 	Fill Options 	Magnify 	

Questions	
What is the different view of an object available in 2Design and Make?	<ul style="list-style-type: none"> Net, Points and 3D.
How can the objects designed in 2Design and Make be turned into 3D objects?	<ul style="list-style-type: none"> You can print the net and then cut and fold this into shape or you can convert the file into a format recognised by 3D printers.
How is CAD software used in industry?	<ul style="list-style-type: none"> It is used to design 3D objects in a 2D environment. Some examples are; Architectural plans for buildings; designing layouts for interiors; designing objects such as packaging and designing mechanical components; designing shoes and clothing.