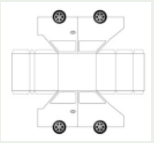
GGA- Summer Computing Knowledge Organiser for Year Five Game 3D Modelling 5.6

Vocabulary

2D	Something that has only two dimensions; height and width.
3D	Something that has three dimensions; height, width and depth
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.
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.
Design brief	A document for a design project, defining the core details, including the goal and strategy.
Net	What a 3D shape would look like if it was unfolded and opened out flat.
Template	Something that serves as a model for others to copy and edit.
Points	The points on a 3D net which create the corners of the 3D shape.

Skills that I am going to learn.

Know the difference between a 2D and 3D model
I can name the properties of a 2D and 3D shape

Know how to move points when designing a 3D model
I can explore the effect of moving points when designing


Know how to design a 3D model
I can design a 3D model to fit a certain criteria

Key Resources

Key Questions

- What are the different view of an object available in 2Design and Make?
- How can the objects designed in 2Design and Make be turned into 3D objects?
- How is CAD software used in industry? Give some examples

Why are we learning this?	Why is this important?
To be able create 3D model to use in various ways	It is a way for us to create a 3D object in a new way