Over Hall Community School	Year: 5 Strand: Computing - 3D Modelling
What should I already know?	Key Vocabulary
 General use of Purple Mash · Design: avatar creation · Paint Projects: use of the simple paint tools 2Create a Story: Painting tool. · Animating images using built in effects · Concept of background (static) and foreground (can move 2Paint a Picture: art effects, collage effects Create a stop motion animation using 2Animate · Use of art tools to create backgrounds and effects Themed art · Art in 3D · Animating 3D characters. Use of 2Dos, saving, opening and editing work, sharing work, copying and pasting , mouse, keyboard and device skills. 	 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. 2D&M Net What a 3D shape would look like if it was unfolded and opened out flat. Design Brief A document for a design project, defining the core details, including the goal and strategy. Pattern Fill A tool where you can add a customised repeating pattern to the surface of the net. 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 The points on a 3D net which create the corners of the 3D shape.
What will I know by the end of the unit?	 Template Something that serves as a model for others to copy and edit. 2D Something that has only two dimensions; height and width.
What is the 2Design and Make tool.?	 3D Something that has three dimensions; height, width and depth.
 You know what the 2Design and Make tool is for. You can explore the different viewpoints in 2Design and Make whilst designing a building. 	Key Questions
 What is the effect of moving points when designing? You can adapt one of the vehicle models by moving the points to alter the shape of the vehicle while still maintaining its form. Can I design a 3D model to fit certain criteria? You can explore how to edit the polygon 3D models to design a 3D model for a purpose 	 What are the different view of an object available in 2Design and Make? Net, Points and 3D. How can the objects designed in 2Design and Make be turned into 3D objects? You can print the net and then cut and fold this into shape or you can convert the file into a for- mat recognised by 3D printers. How is CAD software used in industry? Give some examples.
 Can I refine and print a model? You can refine one of their designs to prepare it for printing. You can print their design as a 2D net and then created a 3D model. You can explore the possibilities of 3D printing. 	• The is CND sopware used in indusing? Give some examples are; Architectural plans for buildings; designing layouts for interiors; designing objects such as packaging and designing mechani- cal components; designing shoes and clothing
	Purple Mash Resources
2D Image 3D Image Net View Colour Palette Colour Palette	• 2D&M
purple mash	