



Topic	Learning Objectives	Key Vocabulary	Learning Sequence	Linked Learning	Home Learning
<p>Isometric Projection</p> <p>Week 1-2 & Week 7 (use feedback to develop isometrics)</p>	<p>To produce isometric projections of 3D forms with holes and extensions</p>	<p>Isometric 30° horizontal lines vertical lines grid sheet parallel sketch enhance</p>	<p>Introduction to basic cube with hole & extension. (10mm grid sheet used as support). Share exemplar material. Use visualizer.</p> <p>Development with 3D form using different dimensions.</p> <p>Further development with more complex isometric (use 5mm grid sheet to challenge pupils)</p> <p>Enhancement technique: apply thick/thin line technique.</p>	<p>Maths—use of isometrics</p> <p>Art—creativity, emphasis on sketching and confident line quality.</p>	
<p>Adobe Photoshop</p> <p>Week 3-6</p>	<p>To produce creative film poster design by using Adobe Photoshop to create and manipulate computer imagery.</p>	<p>Software resolution/ pixilation Paint bucket gradient tool horizontal text tool erase/ magic eraser Effects resize</p>	<p>Intro to setting up a page on PS, explain size and resolution. Share exemplar material.</p> <p>Short, sharp demos on using paint bucket, gradient, copy/paste in images and resizing images.</p> <p>Further demos to challenge the more capable students by using more complex tools.</p> <p>Iterative design: students will continually analyse existing posters to inform their own designs.</p> <p>Students will self and peer assess their posters.</p>	<p>Computing - development of computer proficiency</p> <p>Art—creativity</p>	<p>Extended home learning project that lasts the full 10 week rotation.</p> <p>Students will research into the work of Harry Beck.</p> <p>They will then produce a 2D piece of design work inspired by Beck’s London Underground map. This will be presented to the rest of the class.</p>



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<p>Smart Materials Week 7-8</p>	<p>To conduct detailed research on a variety of smart materials and their properties.</p>	<p>Smart material, external stimuli, photochromic ink, thermochromic ink, phosphorescent pigment</p>	<p>Students will use the Internet to conduct research into what a smart material is, with particular focus given to the 3 stated.</p>	<p>Science - knowledge of materials and their properties. Computing - use of PowerPoint</p>	