

Key Stage 3 Design Technology

Year	Teaching block 1	Teaching block 2	Teaching block 3
7	<p>Unit Title: Plastics in Everyday Life</p> <p>Designing – key fob Isometric introduction Crating Workshop H&S Making – key fob (gluing, filing, shaping, drilling) Plastics – types, uses, stock forms, injection moulding, strip heater Packaging - nets</p>	<p>Unit Title: The Work of Others and Commercial Manufacturing 1</p> <p>Memphis – introduction Memphis – design in the style of CAD/CAM 2D Design - Mirror Mechanisms Standard Components</p>	<p>Unit Title: Considering the Environment</p> <p>Making – bird feeder Timber – types Tools and equipment Further Isometric Orthographic Drawings Sustainability</p>
8	<p>Teaching block 4</p> <p>Unit Title: Design Skills</p> <p>Introduction to 1 point perspective Introduction to 2 point perspective Introduction to Cross Sections Isomeric Recap Introduction to Exploded Drawings</p>	<p>Teaching block 5</p> <p>Unit Title: Working with Timber</p> <p>Properties of Materials Timber - recap and wood joints Designing – in the style of nature Container – making, lap joints</p>	<p>Teaching block 6</p> <p>Unit Title: The Work of Others and Commercial Manufacturing 2</p> <p>New and Smart Materials Alessi Metals Scales of production Vacuum forming 2D design – Maze Game Packaging – blister packaging</p>
9	<p>Teaching block 7</p> <p>Unit Title: Advanced Design Skills</p> <p>Autodesk Inventor Isometric Recap Introduction to Oblique Advanced Crating Advanced Rendering Advanced Exploded Drawing Advanced Orthographic Drawings The Work of Others Design Methodology</p>	<p>Teaching block 8</p> <p>Unit Title: Application of Design Skills</p> <p>Application of Autodesk – F1 Designing – F1 Making – F1 Systems and Control Practice NEA Timber - advanced</p>	