

Subject: **TECHNOLOGY** Year group: **7**

Rotation 1	Rotation 2	Rotation 3	Rotation 4	Rotation 5	Rotation 6
<b>FOOD AND NUTITION</b> Food	<b>RESISTANT MATERIALS</b> <b>WOOD</b> Desk Tidy	<b>GRAPHIC PRODUCTS</b> <b>CARD / PAPER / PLASTIC</b> Charity Boxes	<b>COMPUTER AIDED DESIGN</b> <b>PC'S</b> 3D modelling	<b>Illustration</b> <b>PAPER</b> Perspective drawing	<b>SCULPTURE</b> Clay Clay tiles
<b>Skills</b> Measuring ingredients, Cooking methods, Knife skills, Using raising agents	<b>Skills</b> <ul style="list-style-type: none"> <li>I can research endangered animals to gather detailed information, analyse and select relevant data.</li> <li>I can use woodworking tools safely and effectively in a workshop to design a functional and aesthetically pleasing wooden desk tidy and incorporate elements inspired by my research into the final product.</li> </ul>	<b>Skills</b> <ul style="list-style-type: none"> <li>I can mind map and sketch innovative designs, plan and organise my project step.</li> <li>I can accurately measure and cut paper, assemble and secure the box structure, solve any construction problems, decorate the box appealingly.</li> <li>I can test and evaluate its functionality, and effectively present and explain my completed charity box to others.</li> </ul>	<b>Skills</b> <ul style="list-style-type: none"> <li>I can effectively research architects and their works, analyse architectural styles and techniques.</li> <li>I can use 3D software to design and model a house, apply architectural principles to my design, and present my 3D house model clearly and render this using a wide range of techniques.</li> </ul>	<b>Skills</b> <ul style="list-style-type: none"> <li>I can understand and apply the principles of 1-point and 2-point perspective, accurately draw objects and cityscapes with correct proportions and depth.</li> <li>I can use vanishing points and horizon lines to create realistic and visually appealing drawings.</li> </ul>	<b>Skills</b> <ul style="list-style-type: none"> <li>I can research a sea theme to gather detailed inspiration, analyse and select relevant visual elements.</li> <li>I can design a clay tile that reflects the sea theme, skilfully shape and carve the clay and apply glazing techniques to enhance the tile's aesthetic appeal.</li> </ul>
<b>Resources</b> Hobs, Ovens, Grill, electric mixers, fruit and veg, meat and diary, wet and dry ingredients etc..  <b>Link to artist / theme</b>	<b>Resources</b> Card, Examples of desk tidies made in the workshop MDF – with spares Softwood blocks and bases Glue, scissors, pencils and colouring pencils, Varnish / stain	<b>Resources</b> Card, paper, glue, scissors, coloured pencils, rulers, rubbers, stencils, fine line pencils,  <b>Link to artist / theme</b> Research, design and make	<b>Resources</b> PC suite with pro desktop software and PowerPoint  <b>Link to artist / theme</b> Know what Architecture is and what an Architect does, understand key architectural	<b>Resources</b> Paper, pencil, coloured pencils, fine liners and biro.  <b>Link to artist / theme</b> Explore the work of children's illustrators, E H	<b>Resources</b> Paper, pencils, coloured pencils, clay, clay tools.  <b>Link to artist / theme</b> Research, design and make a clay tile directly influenced

Eatwell guide, main macronutrients and their functions, basic food safety and hygiene	<b>Link to artist / theme</b> Research on Endangered animals to inform the design of the product	donations box for an existing or invented charity	styles and design movements.	Shepard, Tim Burton, Quentin Blake.	by the natural world for a café.
These are rotations and so are on a carousel basis	These are rotations and so are on a carousel basis	These are rotations and so are on a carousel basis	These are rotations and so are on a carousel basis	These are rotations and so are on a carousel basis	These are rotations and so are on a carousel basis
<b>Assessment</b>	<b>Assessment</b>	<b>Assessment</b>	<b>Assessment</b>	<b>Assessment</b>	<b>Assessment</b>
CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews	CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews	CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews	CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews	CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews	CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews

### Skills developed through the year:

In Y7 students build on a range of skills based in the workshop, classrooms and computer rooms to develop their understanding of the technology by a range of specialist teachers for each area. These areas are Food, Resistant materials, Graphic products, CAD software, illustration and clay construction.

### Extra-Curricular Opportunities:

**Catch-up sessions offered to students after school to expand their knowledge, understanding and enjoyment of the subject.**

**Subject: TECHNOLOGY Year group: 8**

Rotation 1	Rotation 2	Rotation 3	Rotation 4	Rotation 5	Rotation 6
<b>FOOD AND NUTITION</b> <b>Food</b>	<b>RESISTANT MATERIALS</b> <b>WOOD</b> Mechanical toy	<b>ILLUMINATED LETTERS</b> <b>CARD / PAPER / DARWING</b> <b>EQUIPMENT</b> Monster alphabet	<b>COMPUTER AIDED DESIGN</b> <b>PC'S</b> CAD/CAM project (rulers and key rings)	<b>SCULPTURE</b> <b>Clay</b> <b>Clay tiles</b>	<b>Pop-up Mechanisms</b> <b>CARD/PAPER and the formal elements of art</b>
<b>Skills</b> Preparation techniques Improve knife skills, Cooking methods, Presentation	<b>Skills</b> <ul style="list-style-type: none"> <li>I can use woodworking tools and techniques to accurately cut, shape, and assemble parts.</li> <li>I can apply engineering principles to create functional and movable mechanisms.</li> <li>I can employ creativity to design an engaging and visually appealing toy.</li> <li>I can use problem-solving skills to address construction challenges and ensure the toy operates smoothly.</li> </ul>	<b>Skills</b> <ul style="list-style-type: none"> <li>I can draw on my ability to analyse and incorporate artistic styles and techniques.</li> <li>I can use various drawing and shading techniques to create detailed and vibrant designs.</li> <li>I can apply creativity to develop unique and expressive illuminated letters.</li> <li>I can research and interpret the work of inspiring artists, integrating their influence into my own artistic expression.</li> </ul>	<b>Skills</b> <ul style="list-style-type: none"> <li>I can use CAD (Computer-Aided Design) software to create precise and detailed designs.</li> <li>I can implement creativity to craft unique and functional products.</li> <li>I can utilise problem-solving skills to overcome design challenges and improve my projects.</li> <li>I can employ attention to detail to ensure accuracy in measurements and aesthetics in the final design.</li> </ul>	<b>Skills</b> <ul style="list-style-type: none"> <li>I can research a sea theme to gather detailed inspiration, analyse and select relevant visual elements.</li> <li>I can design a clay tile that reflects the sea theme, skilfully shape and carve the clay and apply glazing techniques to enhance the tile's aesthetic appeal.</li> </ul>	<b>Skills</b> <ul style="list-style-type: none"> <li>I can plan and sketch out the storyline and layout of each page, considering how the pop-up elements will enhance a story.</li> <li>I can research and experiment with different pop-up techniques and mechanisms and pull tabs to bring my ideas to life.</li> <li>I can carefully measure, cut, and assemble the pages and test the functionality of each pop-up mechanism.</li> <li>I can illustrate and decorate each page of the book to meet my chosen theme and enhance the storytelling experience.</li> </ul>

<p><b>Resources</b> Hobs, Ovens, Grill, electric mixers, fruit and veg, meat and dairy, wet and dry ingredients etc..</p> <p><b>Link to artist / theme</b> micronutrients and their functions, cook safely and hygienically</p>	<p><b>Resources</b> Examples of cranes made in the workshop, Pencils, A3 paper, Rulers Pillar drills, Dowel Hardboard Softwood square cross section Softwood blocks Recycled timber sections</p> <p><b>Link to artist / theme</b> Study different types of cranes and their application in the real world</p>	<p><b>Resources</b> Glue, rulers, scissors, Colouring pencils, white/coloured Card</p> <p><b>Link to artist / theme</b> Understand the impact of illuminated manuscripts on artists and designers. Explore typography and the work of Paul Thurlby. Visual design skills Collage skills, Drawing skills, colour and composition design skills</p>	<p><b>Resources</b> PC suite with Coral draw software, Laser cutter</p> <p><b>Link to artist / theme</b> Measuring devices and links to existing products, target users and CAD software and CAM machinery</p>	<p><b>Resources</b> Paper, pencils, coloured pencils, clay, clay tools.</p> <p><b>Link to artist / theme</b> Research, design and make a clay tile directly influenced by the natural world.</p>	<p><b>Resources</b> Tape, glue, rulers, scissors, Colouring pencils, White/coloured Card</p> <p><b>Link to artist / theme</b> Research, design and make a pop-up book influenced by animals/character design</p>
These are rotations and so are on a carousel basis	These are rotations and so are on a carousel basis	These are rotations and so are on a carousel basis	These are rotations and so are on a carousel basis	These are rotations and so are on a carousel basis	These are rotations and so are on a carousel basis
<b>Assessment</b>	<b>Assessment</b>	<b>Assessment</b>	<b>Assessment</b>	<b>Assessment</b>	<b>Assessment</b>
<p>CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews</p>	<p>CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews</p>	<p>CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews</p>	<p>CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews</p>	<p>CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews</p>	<p>CW/ HW In class assessments, data reviews, verbal feedback weekly, written feedback fortnightly, homework set on Show My Homework Work reviews</p>

### Skills developed through the year:

In Y8 students build on a range of skills based in the workshop, classrooms and computer rooms to develop their understanding of the technology by a range of specialist teachers for each area. These areas are Food, Resistant materials, Graphic products, CAD software, illustration/mechanisms and electronics.

### Extra-Curricular Opportunities:

Catch-up sessions offered to students after school to expand their knowledge, understanding and enjoyment of the subject.

