

Subject: Design Technology

Year 7

Two terms per year. Food Preparation and Nutrition is studied in the third term.

Unit 1 (Term 1 or 2)	Unit 2 (Term 1 or 2)
<p>Product Design 1 – Mirror</p> <p>This unit will introduce students to the process of designing and material properties and they will learn how to use tools and equipment safely in the workshops. The main material for this unit is polymers. Students will also be introduced to computer aided design (CAD).</p> <p>Students investigate the work of others and then design, manufacture and evaluate their own. Students also learn about mechanisms and their uses.</p> <p>A homework task sheet accompanies the unit.</p> <p>Resources: www.technologystudent.com</p> <p>Assessment: Investigation Evaluation End of unit test (in class lasting one hour)</p>	<p>Product Design 2 – Bird Feeder</p> <p>This unit develops students understanding of designing and working in the workshop. The main material and focus for this unit is timber.</p> <p>Students develop their sketching and presentation skills and further develop knowledge in the safe use of workshop tools and equipment.</p> <p>A homework task sheet accompanies the unit.</p> <p>Resources: www.technologystudent.com</p> <p>Assessment: Ideas Making End of unit test (in class lasting one hour)</p>

Year 8

Two terms per year. Food Preparation and Nutrition is studied in the third term.

Unit 1 (Term 1 or 2)	Unit 2 (Term 1 or 2)
<p>Product Design 1 – Container</p> <p>Students develop their skills in the workshops and learn about materials in more detail. They learn more complex processes to allow them to manufacture a storage container in a safe manner.</p> <p>They learn about new and smart materials and how they can be applied to new products.</p> <p>A homework task sheet accompanies the unit.</p> <p>Resources: www.technologystudent.com</p> <p>Assessment: Ideas Making End of unit test (in class lasting one hour)</p>	<p>Product Design 2 – Maze Game</p> <p>Students develop their skills in computer aided design further to manufacture a maze game. They develop graphical skills by producing the packaging for the product. This also introduces students to new workshop equipment.</p> <p>A homework task sheet accompanies the unit.</p> <p>Resources: www.technologystudent.com</p> <p>Assessment: Investigation Evaluation End of unit test (in class lasting one hour)</p>

Year 9

Two terms per year. Food Preparation and Nutrition is studied in the third term.

Unit 1 (Term 1 or 2)	Unit 2 (Term 1 or 2)
<p>Product Design 1 – F1 Challenge</p> <p>Students develop their skills in the workshops and learn about materials in more detail. They learn about the design factors behind F1 cars which will allow them to model, test and race their models against each other.</p> <p>Students are introduced to Autodesk Inventor to allow them to develop their CAD skills</p> <p>A homework task sheet accompanies the unit.</p> <p>Resources: www.technologystudent.com</p> <p>Assessment: Ideas Development End of unit test (in class lasting one hour)</p>	<p>Product Design 2 – MP3 Speaker</p> <p>Students are introduced to electronics and manufacture an amplifier circuit. They also build upon their knowledge from previous units to manufacture its casing. They develop their knowledge in corporate identity and advertising.</p> <p>A homework task sheet accompanies the unit.</p> <p>Resources: www.technologystudent.com</p> <p>Assessment: Investigation Making End of unit test (in class lasting one hour)</p>