



Overview	<p>In Year 7, students learn all about the design process and how to analyse products using ACCESSFM. They learn a range of design techniques to improve their creativity and how to generate unique ideas. Through a range of projects, students use their design, practical and problem-solving skills to design and make solutions to the different design briefs. We introduce a range of new skills and relate all our learning to industry. Projects covered over the duration of the year are not necessarily in this order. Each project lasts for 12-14 lessons.</p>
-----------------	---

Autumn Term	Creative Project – Create a Monster	Assessment
	<ul style="list-style-type: none"> ■ The Design Process – What the steps are and what they cover (Design brief, research, specification, design ideas, prototyping, evaluation) ■ Product Analysis – How to analyse using the ACCESSFM acronym (Aesthetics, cost, customer, environment, safety, size, function, and materials) (extended writing task) ■ Idea Generation – Shown how to sketch and present design ideas using pencils, fine liners, and pencil crayons ■ Biomimicry technique – using nature to help inspire creative and unique design ideas. ■ Morphology technique – using product characteristics to help inspire creative and unique design ideas. ■ Client Profiles – Using peoples’ needs and wants to help design help inspire creative and unique design ideas for different target markets. ■ Developing Drawing, rendering, shading and fine-lining techniques. ■ Materials Science (Timbers and Timber cycle, Manmade boards) Understanding hardwoods, softwoods, their characteristics, properties, stock forms and how to work with them. 	<p>Design skills</p> <ul style="list-style-type: none"> ■ Presentation and colour ■ Creativeness of Design ■ Complexity of design ■ Drawing technique ■ Annotation <p>Extended writing</p> <ul style="list-style-type: none"> ■ Analysing and evaluating ■ Vocabulary ■ Spelling and Grammar

Spring Term	Practical Project – Novelty Mirror	Assessment
	<ul style="list-style-type: none"> ■ Idea Generation – using the techniques learning in the previous term (Biomimicry, morphology, and client profiles to create a unique mirror design) ■ Working with Tools and Machinery (Learning how to use hand tools and workshop machinery) ■ Health and safety (Learning the H&S Rules and safety precautions and PPE to work safely in the workshop) ■ Materials - (MDF, Neoprene, Acrylic mirror) Understanding the material characteristics, properties, stock forms and how to work with them ■ Learning the order in which the mirror will be made. Marking out – Sawing – Filing – Sanding – Drilling – Assembly - Staining 	<p>Practical skills</p> <ul style="list-style-type: none"> ■ Quality of making ■ Accuracy of Design ■ Working safely and Independently ■ Time management

Summer Term	Graphics Project – Healthy bar wrapper	Assessment
	<ul style="list-style-type: none"> ■ Nets – understanding how a net is drawn in 2D can be turned into a 3D shape ■ Packaging – understand the purpose and types of packaging ■ Packaging analysis - understand what is written on packaging (customer information) ■ Idea generation – Using the techniques learning in the previous term (Biomimicry, morphology, and client profiles to create a unique packaging design with images and unique Typography (Word art) ■ Design layout – Understanding and putting into practise a neat layout containing the correct information and symbols in the correct format. 	Design skills <ul style="list-style-type: none"> ■ Creativeness of Design ■ Presentation and colour ■ Design layout

Useful Resources for Supporting Your Child at Home:	Homework:
<p>Teams – all teaching resources can be found here. Technology student.com – All things Design How it’s made on YouTube – understanding manufacturing processes.</p>	<p>Students are expected to come prepared to design lessons with the correct drawing and writing equipment. Homework is always recorded on Teams. Homework varies from research, written or design tasks that requires no more than 30 minutes to complete.</p>