

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Topic: Technology Health and Safety	Topic: Material Properties	Topic: Graphic-based Project	Topic: Engineering-based Project	Topic: 3D Design-based Project	Topic: Creative Arts Summer Project
	Rationale of Learning: In order to be let loose within their creativity during KS3 Technology, students must grasp the health and safety elements of using materials and the multitude of modern machinery (and older) that we have. This is great for developing basic skills with new tools.	Rationale of Learning: Students must grasp the variety of materials available within technology, understanding the advantages of some over others. This opens their awareness to how modern products are designed and why.	Rationale of Learning: Students have a choice within Technology in later years, so we like to offer students a full range of technology-based options so that students can taste each. Graphics allows for students who love to design in a more artistic way, to enjoy creating something of their very own.	Rationale of Learning: Students have a choice within Technology in later years, so we like to offer students a full range of technology-based options so that students can taste each. Engineering allows for students who love the mechanics and design elements of constructs, to physically map out and evaluate a product of their design (Pewter Casting).	Rationale of Learning: Students have a choice within Technology in later years, so we like to offer students a full range of technology-based options so that students can taste each. 3D design incorporates both graphics and engineering, allowing for students to marvel at the advanced machinery whilst applying all their learnt skills this year.	Rationale of Learning: Through choosing an area of Creative Arts that they have enjoyed the most over the year, students complete a project based on a theme. Previous themes have included: Rio, Glastonbury and the Circus. This allows students to further their love of learning on something they've really enjoyed, applying their technological skill in an independent way.
	Content taught: <ul style="list-style-type: none"> • Range of tools used • Practical practice • Use of the workshop • Using specialist equipment 	Content taught: <ul style="list-style-type: none"> • Investigative skills • Practical workshops with different materials • Modern and SMART materials 	Content taught: <ul style="list-style-type: none"> • How to draw in graphics • Researching models • Evaluation of materials • Packaging design • Cost effect 	Content taught: <ul style="list-style-type: none"> • Researching models • Evaluative skills • Design • Analysis of materials • Physics 	Content taught: <ul style="list-style-type: none"> • Researching models • Evaluation of materials • Packaging design • Cost effect • 3D printer 	Content taught: <ul style="list-style-type: none"> • Application of all technology skills • Independence • Creativity • Decision making
Year 8	Topic: Biomimicry: Investigative Projects	Topic: Developing Design Skills	Topic: Graphic-based Project	Topic: Engineering-based Project	Topic: 3D Design-based Project	Topic: Taster of GCSE Options in Technology
	Rationale of Learning: Building to Year 7's knowledge, students begin to research wider models of material use. Students learn how designers use nature to support and develop ideas in order to shape their design thinking and future designs.	Rationale of Learning: Students are given freedom to develop their own design skills through a range of tasks. Here, we want to empower the creative and imagination whilst teaching fundamental rules to design.	Rationale of Learning: Building to last year's skills but with a more difficult project brief. Students are expected to re-apply their skills from last year's project whilst learning new skills and evaluative objectives with a harder brief to complete.	Rationale of Learning: Building to last year's skills but with a more difficult project brief. Students are expected to re-apply their skills from last year's project whilst learning new skills and evaluative objectives with a harder brief to complete.	Rationale of Learning: Building to last year's skills but with a more difficult project brief. Students are expected to re-apply their skills from last year's project whilst learning new skills and evaluative objectives with a harder brief to complete.	Rationale of Learning: Students study a range of technology-based options from Engineering to Resistant Materials in order to establish their choice of GCSE Technology.