

Year 10

Autumn Term 1	Spring Term 1	Summer Term 1
Technical Principles <ul style="list-style-type: none"> • How do developments in Design and Technology influence design decisions and practice? • Material Categories • Electronic Systems 	Technical Principles <ul style="list-style-type: none"> • How can materials and processes be used to make iterative models? • How can materials be manipulated and joined in different ways in a workshop environment when making final prototypes? • How do processes vary when manufacturing products to different scales of production? 	Technical Principles <ul style="list-style-type: none"> • Why is it important to consider the characteristics and properties of materials and/or system components when • Designing • What gives a product structural integrity? • How can materials and products be finished for different purposes?
Autumn Term 2	Spring Term 2	Summer Term 2
Technical Principles <ul style="list-style-type: none"> • Material Categories recap • Electronic Systems • Sources and origins of polymers , Properties and characteristics of Polymers, Stock forms of polymers • Calculating costs and quantities 	Technical Principles <ul style="list-style-type: none"> • How do developments in Design and Technology influence design decisions and practice? • What are the impacts of new and emerging technologies when developing design solutions? • How do designers choose appropriate sources of energy to make products and power systems? 	Technical Principles <ul style="list-style-type: none"> • Why is it important to consider the characteristics and properties of materials and/or system components when • Designing • What gives a product structural integrity? • How can materials and products be finished for different purposes?

Year 11

Autumn Term 1	Spring Term 1	Summer Term 1
Coursework portfolio <ul style="list-style-type: none"> • Initial Research Stakeholders and End Users • Initial Research Wider Issues • Initial Stakeholder Requirements • Initial Ideas • Which Ideas to take forward • Iteration 1 	Coursework portfolio <ul style="list-style-type: none"> • Technical Specification Isometric drawings • Planning Flowchart, Step-by-step, • Photographic Record of Making • Manufacturing Final Prototype 	Past Paper Practice and Exam Technique In depth principles of DT <ul style="list-style-type: none"> • Papers and boards • Natural and manufactured timbers • Metals • Polymers • Fibres and Fabrics
Autumn Term 2	Spring Term 2	Summer Term 2
Coursework portfolio <ul style="list-style-type: none"> • Iteration 2 • Iteration 3 • Prototype Testing • FINAL DESIGN SOLUTION 	Coursework portfolio and revision Manufacturing Final Prototype Past Paper Practice and Exam Technique	Exams