



DT Curriculum Long Term Planning

Year 7		HT1	HT2	HT3	HT4	HT5	HT6
DT	Big Idea	How do you design and manufacture products accurately and safely?					
		Project: Key Fob / Blockhead		Project: Night Light		Project: Design Communication	Project: Microbit
	Application of Knowledge	H&S Test Practical outcome assessment – Focus on quality, accuracy and independence Weekly BIGs on key knowledge		Practical outcome assessment – Focus on quality, accuracy and independence including soldering Weekly BIGs on key knowledge		Practical outcome assessment – Focus on? Weekly BIGs on key knowledge	Practical outcome assessment – Focus on programming, graphic game design Weekly BIGs on key knowledge
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					

Year 7		HT1	HT2	HT3	HT4	HT5	HT6
Food / Textiles	Big Idea	(Art Textiles): How do you design and manufacture products accurately and safely? Project: Monster			(Food): How can you live a healthy life and feed yourself?		
	Application of Knowledge	Practical outcome assessment – Focus on quality, accuracy and independence Weekly BIGs on key knowledge			BIGs & lessons focusing on key knowledge Practical food outcomes to focus on skill development and working with pace & independence		
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Year 8		HT1	HT2	HT3	HT4	HT5	HT6
DT	Big Idea	How do you design and manufacture products accurately and safely?					
		Project: Sweet Dispenser		Project: Recycle Lamp		Project: Design Communication	
	Application of Knowledge	H&S Test Practical outcome assessment – Focus on quality, accuracy and independence Weekly BIGs on key knowledge		Practical outcome assessment – Focus on quality, accuracy and independence inc soldering Weekly BIGs on key knowledge		Practical outcome assessment – Focus on programming, graphic game design Weekly BIGs on key knowledge	
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					

Year 8		HT1	HT2	HT3	HT4	HT5	HT6
Food / Textiles	Big Idea	(Art Textiles): How do you design and manufacture products accurately and safely? Project: Culture Bag			(Food): How can you live a healthy life and feed yourself?		
	Application of Knowledge	Practical outcome assessment – Focus on quality, accuracy and independence Weekly BIGs on key knowledge			BIGs & lessons focusing on key knowledge Practical food outcomes to focus on skill development and working with pace & independence		
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DT & Art Core Curriculum Long Term Planning

Year 9		HT1	HT2	HT3	HT4	HT5	HT6
DT & Art Core	Big Idea	Big Idea (DT & Art core): How do you develop and refine design solutions to real life problems? How does Art influence design					
		Project: Mechanism Game (12 lessons)		Project: Wire Bug (6 lessons)	Project: Wind Chime (6 lessons)	Project: Street Food (6 lessons)	Project: Textiles Upcycle (6 lessons)
	Application of Knowledge	Weekly BIGs on key knowledge Practical outcome assessment – practical skills, following manufacturing instructions	Weekly BIGs on key knowledge Practical outcome assessment – problem solving	Weekly BIGs on key knowledge Practical outcome assessment – creative design https://www.youtube.com/watch?v=fU4H6Bw6ju0	Weekly BIGs on key knowledge Practical outcome assessment – Practical manufacturing skills	Weekly BIGs on key knowledge	Weekly BIGs on key knowledge
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Art Textiles - Curriculum Long Term Planning

Year 9		HT1	HT2	HT3	HT4	HT5	HT6
Art Textiles	Big Idea	What are the fundamental concepts/skills in Art Textiles? Natural Form project exploring fundamental skills In Art Textiles.				What are the fundamental concepts/skills in Art Textiles? Weaving project exploring fundamental skills In Art Textiles.	What are the fundamental concepts/skills in Art Textiles? Landscape Postcard Project exploring fundamental skills In Art Textiles.
	Application of Knowledge	Weekly BIGs on key knowledge Practical outcome assessment – practical skills			Weekly BIGs on key knowledge Practical outcome assessment – practical skills – lino print	Weekly BIGs on key knowledge Practical outcome assessment – practical skills Patchwork skills assessment	Weekly BIGs on key knowledge Practical outcome assessment – practical skills
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Year 10		HT1	HT2	HT3	HT4	HT5	HT6
Art Textiles	Big Idea	How have textures inspired artists, crafts people, and designers? Textures project exploring fundamental skills In Art Textiles.				How have structures inspired artists, crafts people, and designers? Structures project exploring fundamental skills In Art Textiles.	
	Application of Knowledge	Weekly BIGs on key knowledge Practical outcome assessment – practical skills					
	Application of Knowledge Intent	AQA GCSE Art and Design – Art Textiles pathway introduction Grading criteria is based around the four assessment objectives AO1: Develop ideas through investigations, demonstrating critical understanding of sources. AO2: Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques and processes. AO3: Record ideas, observations and insights relevant to intentions as work progresses. AO4: Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.					
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Year 11		HT1	HT2	HT3	HT4	HT5	HT6
Art Textiles	Big Idea	How have structures inspired artists, crafts people, and designers? Structures project exploring fundamental skills In Art Textiles.		Personal response to ESA contexts.			
	Application of Knowledge	Weekly BIGs on key knowledge Practical outcome assessment – practical skills					
	Application of Knowledge Intent	AQA GCSE Art and Design – Art Textiles pathway introduction Grading criteria is based around the four assessment objectives AO1: Develop ideas through investigations, demonstrating critical understanding of sources. AO2: Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques and processes. AO3: Record ideas, observations and insights relevant to intentions as work progresses. AO4: Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.					
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Construction - Curriculum Long Term Planning

Year 9		HT1	HT2	HT3	HT4	HT5	HT6
Construction	Big Idea Practical	How does a joiner join different pieces of wood together? Project: Wood joints How do different loads affect a buildings design, life, and area around it? Project: Structures challenge		How do architects produce drawings and models for clients? Project: Architects model		How are houses built and what materials, processes and techniques are used? Project: House building	
	Big Idea Theory	How do wood joints work? Theory: wood types and different classifications, wood joints, tools, and equipment. How do wind, seismic and dead loads affect a building? Theory: Loads, wood joints, joining methods.		How do architects draw and model? Theory: Ratio, architectural drawing, scale, modelling materials, joining methods.		How are houses built and what materials are used in different areas of the house? Theory: Foundations, walls, roofs, insulation, weather resistance.	
	Application of Knowledge	Weekly BIGs (Brain in Gear) on key knowledge Assessment of practical wood joints – accuracy, correct method. Weekly BIGs on key knowledge Assessment of practical outcome – design features and build quality		Weekly BIGs on key knowledge Assessment of designs and model – quality of model making skills		Weekly BIGs on key knowledge Assessment of manufacturing skills	
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Year 10		HT1	HT2	HT3	HT4	HT5	HT6
Construction	Big Idea Practical	How have structures inspired artists, crafts people, and designers? Structures project exploring fundamental skills In Art Textiles.		Personal response to ESA contexts.			
	Big Idea Theory	Can you produce a joinery piece to match instructions given by the PSA? Theory: Measurements, tool use and best practice, H&S.		What does a client need from the project set by the PSA and what about budget requirements. Theory: Exam content (1-21 theory lessons)	What are the design requirements of the project? Theory: Exam content (1-21 theory lessons)	What does a client need from the project set by the PSA and what about budget requirements. Theory: Exam content (1-21 theory lessons)	What are the design requirements of the project? Theory: Exam content (1-21 theory lessons)
	Application of Knowledge	Weekly BIGs on key knowledge PSA assessment – Risk assessment, Practical Frame, tolerance/ accuracy		Weekly BIGs on key knowledge 4 topic exams to test prior learning from 1-21 theory lessons.			Weekly BIGs on key knowledge 4 topic exams to test prior learning from 1-21 theory lessons. Mock exam
	Application of Knowledge Intent	- Be able to understand hazards and risk for safe production of a practical construction outcome - Be able to produce a practical construction outcome. A1 Risk assessments A2 Measuring, marking, and setting out A3 Tools and materials B1 Jointing and incorporation of materials B2 Accuracy in construction B3 Dimension checks on outcome		Pupils study topics under the 3 learning objectives to cover all exam content. AO1 Demonstrate knowledge of work of the construction industry and the different technology used in low-rise construction projects AO2 Demonstrate understanding of work of the construction industry and the different technology used in low-rise construction projects AO3 Be able to make connections between different construction technologies to ensure appropriateness of low-rise construction projects in different scenarios			
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Year 11		HT1	HT2	HT3	HT4	HT5	HT6
Construction	Big Idea Practical	Completing PSA – Can you communicate design ideas? Project: PSA Unit 2 Designing		Unit 1 Exam content			
	Big Idea Theory	Can you design to meet a client’s needs within a set budget? Theory: Profiling a client, constraints on a design, budgeting, design methods.		Can you answer questions based on the unit content? Theory: Exam content (1-21 theory lessons)	Can you revise and prepare for your exam? Theory: Revise ALL topics / PLC focussed topics		
	Application of Knowledge	Weekly BIGs on key knowledge PSA assessment – research of task, design ideas, final design, annotation		Weekly BIGs on key knowledge Practice Exam questions Mock Exam	Weekly BIGs on key knowledge Practice Exam questions		
	Application of Knowledge Intent	A Understand the needs of a client and the constraints on design when designing a low-rise building B Be able to graphically communicate the design of a low-rise building.		AO1 Demonstrate knowledge of work of the construction industry and the different technology used in low-rise construction projects AO2 Demonstrate understanding of work of the construction industry and the different technology used in low-rise construction projects AO3 Be able to make connections between different construction technologies to ensure appropriateness of low-rise construction projects in different scenario			
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Engineering - Curriculum Long Term Planning

Year 9		HT1	HT2	HT3	HT4	HT5	HT6
Engineering	Big Idea Practical	Can you manufacture accurately? Project: Key fob	Can you solve problems? Project: Catapult		Can you manufacture with metal? Project: Tea light	Can you read and follow orthographic drawings? Project: USB Lamp	
	Big Idea Theory	How does working with metals differ from working with plastic and wood? Theory: Health and Safety, Tools & Equipment, Material Properties, Structures, Elastic Energy, Levers			Why are different materials used for different projects? Theory: Raw Materials, Material Properties, Metals, Welding, Drawings	Can you answer questions based on the unit content? Theory: Material Properties, Metals, Machines & Processes, Finishes	
	Application of Knowledge	Weekly BIGs on key knowledge Practical outcome assessment – practical skills, creative design			Weekly BIGs on key knowledge Practical outcome assessment – practical skills, following manufacturing instructions	Weekly BIGs on key knowledge Practical outcome assessment – practical skills, following manufacturing instructions	
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Year 10		HT1	HT2	HT3	HT4	HT5	HT6
Engineering	Big Idea Practical	Completing PSA – Can you manufacture accurately? Project: PSA Unit 1 - Manufacture					
	Big Idea Theory	Do you know how products are manufactured in industry? Theory: Health & Safety, Machines, Tool & Equipment			Can you revise and prepare for your exam? Theory: Health & Safety, Raw Materials, Categories and Types of Materials, Materials Finishes	Can you revise and prepare for your exam? Theory: CAD, Drawing Tech, Isometric & Orthographic, Engineering tools, Machines & Equipment, processes	Can you revise and prepare for your exam? Theory: Analysis of Products, Evaluation Techniques, Developments
	Application of Knowledge	Weekly BIGs on key knowledge Practice Exam questions PSA assessment – research of materials, risk assessments, practical outcome, evaluation			Weekly BIGs on key knowledge Practice Exam questions	Weekly BIGs on key knowledge Practice Exam questions	Weekly BIGs on key knowledge Practice Exam questions Mock Exam
	Application of Knowledge Intent	Meet LO requirements for Unit 1 LO1 know how engineered products meet requirements. LO2 be able to communicate design solutions. LO3 be able to propose design solutions.			Meet LO requirements for Unit 3 LO1 understand effects of engineering achievements LO2 understand properties of engineering materials LO3 know forming processes of engineering materials LO4 be able to solve engineering problems		
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Year 11		HT1	HT2	HT3	HT4	HT5	HT6
Engineering	Big Idea Practical	Completing PSA – Can you communicate design ideas? Project: PSA Unit 2 - Design					
	Big Idea Theory	Do you know how products are manufactured in industry? Theory: Health & Safety, Raw Materials, Categories and Types of Materials, Materials Finishes			Can you revise and prepare for your exam? Theory: Revise ALL topics / PLC focussed topics. Analysis of Products, Evaluation Techniques, Developments		
	Application of Knowledge	Weekly BIGs on key knowledge Practice Exam questions Mock Exam PSA assessment – product analysis, design ideas, design development, evaluation			Weekly BIGs on key knowledge Practice Exam questions Past papers GCSE POD self-marked hmwk		
	Application of Knowledge Intent	Meet LO requirements for Unit 2 LO1 be able to interpret engineering information LO2 be able to plan engineering production LO3 be able to use engineering equipment LO4 be able to use engineering processes			Meet LO requirements for Unit 3 LO1 understand effects of engineering achievements LO2 understand properties of engineering materials LO3 know forming processes of engineering materials LO4 be able to solve engineering problems		
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Food - Curriculum Long Term Planning

Year 9		HT1	HT2	HT3	HT4	HT5	HT6
Food	Big Idea Practical	What are the Food Preparation skills that can be demonstrated & applied to achieve a varied range of food products/dishes?					
	Big Idea Theory	What are the factors that affect people’s food choices? Topic – Food Choices Theory: Food choice related to religion, culture, ethical and moral beliefs, and medical conditions. Food choice related to religion, culture, ethical and moral beliefs, and medical conditions. Food choice related to religion, culture, ethical and moral beliefs, and medical conditions. Sensory testing methods & how taste receptors & olfactory systems work when tasting food.			What are the different aspects of Food Provenance? Topic – Food Provenance Theory: Where & how ingredients are grown, reared & caught. Environmental issues associated with food. The impact of food & food security on local & global markets & communities. Primary & secondary stages of food processing & production. How processing affects the sensory & nutritional properties of ingredients. Technological developments to support better health & food production including fortification & modified foods with health benefits & the efficacy of these.		
	Application of Knowledge	Weekly BIGs on key knowledge Practice Exam questions					
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Year 10		HT1	HT2	HT3	HT4	HT5	HT6	
Food	Big Idea Practical	What are the Food Preparation skills that can be demonstrated & applied to achieve a varied range of food products/dishes?						
	Big Idea Theory	How do you stay fit and healthy? Topic – Nutrition Theory: Macronutrients – Protein, Fat & Carbohydrates. Micronutrients – Vitamins & Minerals. Water. The current guidelines for a healthy diet. Portion size and costing when meal planning. How peoples’ nutritional needs change and how to plan a balanced diet for different life stages. How to plan a balanced meal for specific dietary groups. How to maintain a healthy body weight throughout life. The basal metabolic rate (BMR) and physical activity level (PAL) and their importance in determining energy requirements. The recommended percentage of energy intake provided by protein, fat, and carbohydrates (starch and sugar). How to plan and modify recipes, meals, and diets to reflect the nutritional guidelines for a healthy diet. The relationship between diet, nutrition & health & the major diet related health risks.			What are the Food Safety principles & rules? Topic - Food Safety Theory: The growth conditions for microorganisms and enzymes and the control of food spoilage, bacteria, yeasts, and moulds are microorganisms, high risk foods & enzymes are biological catalysts usually made from protein. The signs of food spoilage – enzymic action, mould growth & yeast action. The uses of microorganisms in food production. Bacterial contamination - the different sources of bacterial contamination, the main types of bacteria which cause food poisoning, the main sources, and methods of control of different food poisoning bacterium types & the general symptoms of food poisoning. The food safety principles when buying & storing food. The food safety principles when preparing, cooking & serving food.		What are the factors that affect how ingredients work? Topic – Food Science Theory: The reasons why food is cooked & the different methods of heat transfer. The selection of appropriate preparation, cooking methods & times to achieve desired characteristics.	
	Application of Knowledge	Weekly BIGs on key knowledge Practice Exam questions					Weekly BIGs on key knowledge Practice Exam questions Mock written exam Mock practical exam	
	Application of Knowledge Intent	• AO1: Demonstrate knowledge & understanding of nutrition, food, cooking & preparation, • AO2: Apply knowledge & understanding of nutrition, food, coking & preparation, • AO3: Plan, prepare, cook & present dishes, combining appropriate techniques, • AO4: Analyse & evaluate different aspects of nutrition, food, cooking & preparation including food made by themselves & others.						
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs						



Year 11		HT1	HT2	HT3	HT4	HT5	HT6
Food	Big Idea Practical	Topic – Food Science	NEA Task 1 – Food Investigation Task	NEA Task 2 – Food Preparation Task			
	Big Idea Theory	What are the factors that affect how ingredients work? Topic - Food Science Theory: What are the functional & chemical properties of proteins, carbohydrates, fats & oils, fruits & vegetables & raising agents.	What are the scientific principles for ingredients work?	What are the nutritional, cultural or dietary needs that need addressing? Students should be taught to: - consider the influence of lifestyle and consumer choice when developing meals and recipes - consider nutritional needs and food choices when selecting recipes, including when making decisions about the ingredients, processes, cooking methods and portion sizes - develop the ability to review and make improvements to recipes by amending them to include the most appropriate ingredients, processes, cooking methods and portion sizes - manage the time and cost of recipes effectively - use their testing and sensory evaluation skills, adjusting where needed, to improve the recipe during the preparation and cooking process - explain, justify, and present their ideas about their chosen cooking methods to others - make decisions about which techniques are appropriate based on their understanding of nutrition, food, different culinary traditions and cooking and food preparation content to achieve their intended outcome. They should be able to carry out these techniques safely and combine them into appealing meals whilst evaluating the results.		What do you know & understand about the 5 different topic areas of your specification?	
	Application of Knowledge	Weekly BIGs on key knowledge Practice Exam questions SENECA & GCSE POD HWK	Weekly BIGs on key knowledge Practice Exam questions SENECA & GCSE POD HWK	Weekly BIGs on key knowledge Practice Exam questions SENECA & GCSE POD HWK		Practice exam questions SENECA & GCSE POD	
	Application of Knowledge Intent	- A01: Demonstrate knowledge & understanding of nutrition, food, cooking & preparation, - A02: Apply knowledge & understanding of nutrition, food, coking & preparation, - A03: Plan, prepare, cook & present dishes, combining appropriate techniques, - A04: Analyse & evaluate different aspects of nutrition, food, cooking & preparation including food made by themselves & others.					
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Product - Curriculum Long Term Planning

Year 9		HT1		HT2		HT3		HT4		HT5		HT6	
Product	Big Idea Practical	Can you manufacture products using more complex processes and equipment? Project: Skills Stick				Can you model ideas accurately? Project: Foam remote				Project: Cube Light Can you programme circuits and manufacture a product to a user's needs?			
	Big Idea Theory	Do you know the different types of materials and their properties? Theory: Material Properties, Polymers, CAD/CAM, Timbers, Smart and Modern Materials		How do you design to meet users' needs Theory: Papers & Boards, Metals & Alloys, Anthropometrics & Ergonomics, Target user and needs, Primary and secondary data		How do designers, design? Theory: Timbers & Boards, Textiles, Design briefs and Specs, Design strategies, Designers		How are products made on an industrial scale? Theory: Analysing products, Developing Ideas, Prototypes, Scales of Production, Production Aids		Do you know how electronic components and systems work? Theory: Circuits, Components, Processes, Batteries		Do you know how to shape, join, and finish materials? Theory: Treatments & finishes, shaping materials, Joining materials, Tools, Mock test	
	Application of Knowledge	Assessment of practical outcome – focus on accuracy, quality & independence. Theory: Practice questions				Assessment of practical outcome – focus on accuracy, quality & independence. Theory: Practice questions				Assessment of practical outcome – focus on accuracy, quality & independence. Theory: Practice questions			
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs											



Year 10		HT1	HT2	HT3	HT4	HT5	HT6
Product	Big Idea Practical	Can you research a problem? Project: Practice NEA	Can you develop an idea? Project: Practice NEA	Can you manufacture a solution? Project: Practice NEA		Can you evaluate your solution? Project: Practice NEA	NEA – Can you research the 3 contexts? Project: NEA Research
	Big Idea Theory	What is the impact of design on our planet? Theory: - Product Sustainability / social issues, Products in society, Powering systems	How do you make products move? Theory: Levers & Forces, Cams & Linkages, Pulleys	How do electronic systems work? Theory: 3 stages of a circuit, Components, Types of circuit	What industrial techniques are used in manufacturing products? Theory: - Treatments & Finishes, shaping materials, Joining materials, Tools, Designers and Companies, Mock	Do you know the different types of materials and their properties? Theory: Properties of materials, Timbers, Polymers, Metals, Smart & modern materials, Fabrics	How do designers research ideas? Theory: Design Briefs and Specifications, Primary and secondary data, Design strategies and techniques, Pre exam lesson, Mock, Green Pen mock
	Application of Knowledge	Mark Research (10 marks) Practice Questions GCSE POD self-marked hmwk	Mark Specification (10 marks) & Ideas (30 marks) Practice Questions GCSE POD self-marked hmwk	Mark Manufacturing (30 marks) Practice Questions GCSE POD self-marked hmwk		Mark Evaluation (20 marks) Practice Questions GCSE POD self-marked hmwk	Mark NEA research (20 marks) Mock Exam June Practice Questions GCSE POD self-marked hmwk
	Application of Knowledge Intent	Practice research skills for NEA AO1 Identify, investigate, and outline design possibilities to address needs and wants	Practice design skills for NEA AO2 Design and make prototypes that are fit for purpose	Practice making skills for NEA AO2 Design and make prototypes that are fit for purpose		Practice evaluation skills for NEA AO3 Analyse and evaluate - design decisions and outcomes, including for prototypes made by themselves and others - wider issues in design and technology	Pupils to research the contexts – worth 10 marks AO1 Identify, investigate, and outline design possibilities to address needs and wants
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					



Year 11		HT1	HT2	HT3	HT4	HT5	HT6
Product	Big Idea Practical	NEA – Can you design and develop ideas? Project: NEA-Designing/Modelling	NEA - Can you manufacture? Project: NEA– Manufacturing		NEA - Can you evaluate your design? Project: NEA– Evaluation		
	Big Idea Theory	Do you understand the properties of materials? Theory: Properties of materials, Timbers, Polymers, Metals, Smart & modern materials, Fabrics, Papers & boards	Do you know the manufacturing techniques used in industry? Theory: Production Aids & Tolerances, Quality control, Mock revision 1, Mock, revision 2, Mock revision 3, CAD/CAM, Scales of production	Do you understand how products are made in industry? Theory: Selecting and working with appropriate materials, selection of materials or components, Stock forms, Alternative processes, Specialist techniques and processes, Appropriate surface treatments and finishes.	Do you know how products are manufactured? Theory: Treatments & Finishes, shaping materials, Joining materials, Tools, Timber, Mock, Green pen mock	Can you revise and prepare for your exam? Theory: Revise ALL topics / PLC focussed topics Design and technology and our world, Smart materials, electronic systems and programmable components, Mechanical components and devices, materials	
	Application of Knowledge	Mark NEA Specification (10 marks) & Ideas (30 marks) Mock Exam December Practice Exam Questions / BIGS		Mark NEA Manufacture (30 marks) Practice Exam Questions / BIGS	Mark NEA Evaluation (20 marks) Practice Exam Questions / BIGS	Mock Exams Practice Exam Questions / BIGS	
	Application of Knowledge Intent	Pupils develop and model design solutions worth 30 marks AO2 Design and make prototypes that are fit for purpose		Pupils manufacture a solution to the problem worth 30 marks AO2 Design and make prototypes that are fit for purpose Practice Exam Questions	Pupils evaluate their design worth 20 marks AO3 Analyse and evaluate - design decisions and outcomes, including for prototypes made by themselves and others - wider issues in design and technology	To prepare pupils for their summer exam	
	Wider Curriculum Links	ABC Oracy & Formality Scale – FBV – Rule of Law (Health & Safety, PPE) & Teamwork, Equality & Diversity, Careers/Pathways, BBC News current affairs					