



**Venerable Bede CE Academy  
Long Term Curriculum Plan**

**Subject: Resistant Materials - Art Design and Technology**

**Curriculum Intent:**

Through our curriculum, EVERY pupil is going to...

- **Develop** a love of learning, academic excellence and **perseverance** in a Christian context
- **Engage** in a wide range of opportunities in **joyful**, meaningful contexts to develop self-worth and mastery of knowledge and skills
- **Encourage** themselves and others to be aspirational and make **wise** choices so that they are prepared for life
- **Practise** equality of opportunity by valuing diversity, actively challenging prejudice and demonstrating **forgiveness** and **hope**

Year	Child's Play	Focus	Approximate Curriculum Hours	Assessment
Year 7	Base line test	Create a 3D net.	1	Line, measurement, accuracy and outcome.
	Design brief	Design brief analysis to enable pupils to create a must specification using analysis and consumer requirements.	1	A 1- sources and relevance
	Research	Research Existing Products suitable to chosen consumer.	1	
	Design and development	Drawing skills demonstrated to enhance design ideas and design development. Choose a final design and complete an extended piece of writing explaining reason for choice. Create a model and templates for practical work.	2	A2- use of research, design for consumer
	Technical skill	Introduction to tools and machinery within the constraints of this project creating a Jigsaw	2	A3- successful use of tools and equipment with accuracy and confidence.
	Independent		6	
	Evaluation	Evaluate research and practical outcome	1	A4- suitability
	Knowledge and understanding	Introduction to the properties of the materials woods	2	A5- Properties of materials

**Year 7 Homework Overview: 3 homework set at key points of rotation to review and consolidate learning.**

- 1. Research**
- 2. Extended writing**
- 3. Demonstration of knowledge and understanding**

<b>Year 8</b>	Design brief	Design brief analysis to enable pupils to create a must specification using analysis and consumer requirements	1	A 1- sources and relevance
	Research	Research mood board suitable to chosen consumer, with extended evaluation	1	
	Design and development	Drawing skills demonstrated to enhance design ideas and design development. Create a Model of speaker. Create plan which has quality control steps.	2	A2- use of research, design for consumer
	Technical skill	Introduction to new machinery.	2	A 3- successful use of tools and equipment with accuracy and confidence.
	Independent	Develop use of machinery independently using accuracy and safe working practice.	6	
	Evaluation	Evaluate research and practical outcome	1	A4- suitability
	Knowledge and understanding	Introduction to construction techniques	2	A5- Properties of materials

**Year 8 Homework Overview: 3 homework set at key points of rotation to review and consolidate learning.**

- 1. Research**
- 2. Extended writing**
- 3. Demonstration of knowledge and understanding**

<b>Year 9</b>	Surface enhancement techniques	Develop and practise use of all techniques	Term 1	Each example and accuracy of outcome.
	Application	Apply knowledge understanding and skill	Term 2	Demonstrating technical application using tools and equipment with accuracy
	Construction	Develop practice specialist constructions technique's	Term3	Understand properties of materials.
	Independence	Apply knowledge understanding and skill		Outcome using all

**Year 9 Homework Overview:**

**Mini projects to apply skill and demonstrate knowledge and understanding half termly.**

<b>Year 10</b>	Core principles 1	Materials and working properties Energy generation and storage Impact on emerging technology Development of new materials Mechanical devices System approach to designing	Term 1	Assessment criteria A
	Core principles 2	Materials- origins-working Forces and stress Foot print Production Specialist techniques and processors Surface treatments and finishes	Term2	Assessment criteria B
	Core principles 3	Principles of making Investigation Work of others Design strategies Communication Prototype Selection of materials and working properties and tolerances Specialist techniques and processors	Term 3	Assessment criteria C
<b>Year 10 Homework Overview:</b> Throughout this unit pupils will be able to investigate and carry out research				
<b>Year 11</b>	Identifying and investigating design possibilities –	To identify a possible client for the NEA To generate primary research through client interview and target market questionnaire To be able to present findings of interview and questionnaire using ICT	4	Assessment criteria A
	Producing a design brief & specification-	To gather inspiration from the work of others to create a case study To analyse the findings from your investigation (research) so far and identify next steps	2	Assessment criteria B
	Generating design ideas-	To be able to design imaginative, creative and innovative products	8	Assessment criteria C
	Developing design ideas	To demonstrate ability to develop design features of a product To carry out further investigation enable you to move forward	4	Assessment criteria D
	Realising design ideas	To be able to demonstrate modelling skills to create an initial prototype/toile of your idea To demonstrate practical skills to make a commercially viable final product	10	Assessment criteria E

	Analysing and evaluating	To be able to explain further developments and improvements of final product based on feedback from others	4	Assessment criteria F
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**Year 11 Homework Overview:**

Throughout NEA pupils will be able to investigate and carry out research to enable them to complete NEA task this will not be counted in their allotted time.