

# Yr7 Projects- African Jewellery, Key Fob and Model Village



Y7: DT

<b>Why this?</b>	Students will begin to develop technology knowledge and understanding whilst designing and making using different materials, they learn basic skills and techniques, the importance of health and safety and how the design process works.
<b>Why now?</b> <b>What are we building on?</b>	Students will build upon learning in Key Stage 2 Design and Technology Knowledge and skills including: Using basic tools and equipment, simple practical skills and techniques, working in a safe manner, basic properties of materials and how they work and simple evaluation of everyday products.

Key Vocabulary	Sources Or content	Create Independent learning	Knowledge	Skills	Links to other curriculum areas?	Links to Primary national curriculum?
Aesthetics Specification Manufacture Materials Creative Sustainable Template Consumer Function Design Safety Ergonomics Commercial Symbols Adapt Develop Evaluate Compare	Year 7 Booklets ACCESSFM wall display Year 7 information mat Examples of previous completed projects	Designing/manufacturing individual and creative outcomes and products Producing personal design specification Testing and selecting materials to be used	<ul style="list-style-type: none"> <li>Understand the principles of working safely</li> <li>Understand how to use a variety of tools/equipment safely and accurately</li> <li>How to produce a design specification</li> <li>How to test the properties and characteristics of materials</li> <li>Be able to compare products</li> <li>Be able to evaluate products</li> </ul>	<ul style="list-style-type: none"> <li>Adapting existing designs</li> <li>Use measuring techniques</li> <li>Using folding and cutting techniques</li> <li>Producing geometric shapes</li> <li>Using various hand tools to cut, shape and reduce wood and plastic</li> <li>Using machine tools to drill and polish wood and plastic</li> <li>Evaluate products using a specification</li> </ul>	<p><b>Flow chart- maths</b> <b>Measuring- maths</b> <b>Properties of materials- science</b> <b>Meaning of key vocab- English</b> <b>Sketching design ideas- art</b> <b>Adrinka symbols- history</b></p>	<p>The design process Research Using basic equipment Working with different materials Evaluation</p>
<b>Diversity and Personal Development</b>						
The curriculum is designed to make students aware of how the influence of different cultures can inspire designing everyday products (African jewellery project)						

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<b>Common misconceptions</b>	<p>Gender stereotyping- only men should work with resistant materials.</p> <p>Design technology is a solely practical subject</p> <p>Design technology is an easy option</p> <p>Design technology does not require skills, knowledge and understanding from other subject areas</p> <p>Working with Design technology tools and equipment is a simple and easy process</p> <p>Working with all materials is the same</p>
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What will I have learnt at the end of this unit?	What is the assessment of this learning? <b>SUMMATIVE</b>	What assessments are their for learning? <b>FORMATIVE</b>
<p>Basic principles of health and safety when using a range of tools and equipment</p> <p>How to use the design process to come up with simple design solutions</p> <p>Competently use a range of basic equipment and techniques to produce products in wood and plastic</p> <p>Evaluate simple products and suggest improvements.</p>	<p>Written tasks/questions in work booklet- peer marking /teacher marking- Grade/level for each piece of work</p> <p>Final grade for all practical projects</p> <p>End of year assessment</p>	<p>Peer assessment of design ideas and outcomes</p> <p>Class discussions</p> <p>Observation and guidance of design and practical tasks</p>
Concepts explored	Opportunities for Oracy	Careers in the curriculum
<p>Properties of materials</p> <p>Aesthetics</p> <p>Creativity</p> <p>Ergonomics</p>	<p>Whole class discussions</p> <p>Whole class evaluation of completed products</p> <p>Analysis of design ideas in pairs</p>	<p>Joinery</p> <p>Electrician</p> <p>Stage designer</p> <p>Engineer</p>

What subject knowledge and skills will I have the opportunity to remember, revisit and develop? (from when)
<p>Health and safety when carrying out practical tasks</p> <p>The design process</p> <p>Properties of different materials</p> <p>Use of tools and equipment to manufacture products</p>
Developing and Challenging my own learning
<p><b>Exam questions in work booklets</b></p> <p><b>Creating individual specification for manufacture</b></p> <p><b>Working with different materials</b></p> <p><b>Applying critical testing to develop design solutions</b></p>
Opportunities to experience ' _____ ' in action?
<p><b>DIY tasks around the house</b></p> <p><b>Everyday problem solving</b></p> <p><b>Applying DT to solving problems</b></p>