



## YEAR 12 TERM 2

'An ambitious curriculum that meets the needs of all'

### Medium Term Planning - Topic: Modern Materials



<b>Curriculum Intent</b>	In addition to working further on objectives from Year 11 , pupils will be taught, following National Curriculum guidelines, the following this term:
<b>Skills/Assessment Objective Links</b>	<p>To know and understand the term <b>modern materials</b></p> <p>To be able to explain the suitability of modern materials</p> <ul style="list-style-type: none"> <li>To know the following modern materials: <b>Kevlar, precious metal clay, high density modelling foam and polymorph</b></li> </ul>
<b>Spiritual, moral, social, and cultural development</b>	<p><b>SMSC:</b></p> <p><b>PSHE/British Values:</b> Links to British industries and products</p> <p><b>Skills Builder:</b> Linking product with the type of material and the reasons why the material is used.</p>
<b>Numeracy</b>	
<b>Literacy</b>	<p><b>Vocabulary Tier 2:</b> See highlighted above</p> <p><b>Vocabulary Tier 3:</b> See highlighted above</p> <p><b>Reading:</b> exam style question, text book terminology</p> <p><b>Writing:</b> use of technical tier 3 vocabulary within an exam question and annotation</p> <p><b>Oracy:</b> when questioned pupils are able to use technical subject specific language</p>
<b>Becoming future ready</b>	<b>Careers/Employability:</b> Knowledge of metals, metal industries and processes
<b>Adaptation</b>	Throughout this topic, quality first teaching will provide differentiation:
<b>QFT/SEND Provision</b>	<p><b>By product:</b></p> <p><b>By resource:</b> A Level books, Online resources, Powerpoints</p> <p><b>By Intervention:</b> by providing different levels of supervision and support</p> <p><b>By Progressive Questioning:</b> exploring pupils' understanding through interactive dialogue.</p> <p><b>By Grouping:</b> according to prior attainment, gender, social preference, preferred learning style.</p> <p><b>By Task:</b> Pupils should be involved in the identification of targets which are meaningful to them and in the selection of an appropriate task from the given range.</p> <p><b>By Offering Optional Activities:</b> In class or as homework, to extend learning.</p> <p>This QFT/SEND provision will be explicit within the lesson-by-lesson schemes of work.</p>
<b>Implementation Curriculum Delivery</b>	To know and understand the term <b>modern materials</b>
<b>Learning Outcomes (Knowledge)</b>	<p>To be able to explain the suitability of modern materials</p> <p>To know the following modern materials: <b>Kevlar</b>, precious metal clay, high density modelling foam and polymorph</p> <p>Red denotes interleaving; aspects of knowledge covered previously.</p> <p>Only a small amount of knowledge covered at GCSE</p>
<b>Current learning to be developed in the future within:</b>	
<b>Assessment</b>	End of Unit assessment – use of AQA Exampro questions

## Impact

Students to have knowledge and understanding of modern materials and know examples of products in order to answer exam style questions and apply knowledge and understanding to NEA tasks.