



YEAR 10 TERM 1

'An ambitious curriculum that meets the needs of all'



Medium Term Planning - Topic: R039 TA3 - Use of computer-aided design

Curriculum Intent	In addition to working further on objectives from Year 9 , pupils will be taught, following National Curriculum guidelines, the following this term:
Skills/Assessment Objective Links	<p>To be able to:</p> <ul style="list-style-type: none"> understand the use of CAD and the design layout for producing drawings identify and use simple drawing commands understand the use of specific CAD drafting commands to produce 3D drawings identify and use CAD drawing commands to produce more developed drawings use more detailed CAD commands to carry out rendering to their design work identify and use CAD to simulate a drawing develop their use of CAD further to include the addition of detail join CAD parts together using additional CAD commands
Spiritual, moral, social, and cultural development	<p>SMSC:</p> <p>PSHE/British Values:</p> <p>Skills Builder: Planning for make skills</p>
Numeracy	
Literacy	<p>Vocabulary Tier 2: See highlighted above</p> <p>Vocabulary Tier 3: See highlighted above</p> <p>Reading:</p> <p>Writing: use of technical tier 3 vocabulary within annotation and design specification</p> <p>Oracy: when questioned pupils are able to use technical subject specific language</p>
Becoming future ready	Careers/Employability: manufacturing industry, Product Designer, Engineering sector
Adaptation	Throughout this topic, quality first teaching will provide differentiation:
QFT/SEND Provision	<p>By product: Use of Hodder Boost resources</p> <p>By resource: Use of exemplar materials from OCR</p> <p>By Intervention: by providing different levels of supervision and support</p> <p>By Progressive Questioning: exploring pupils' understanding through interactive dialogue.</p> <p>By Grouping: according to prior attainment, gender, social preference, preferred learning style.</p> <p>By Task: 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>By Offering Optional Activities: 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>
Implementation Curriculum Delivery	
Learning Outcomes (Knowledge)	Red denotes interleaving; aspects of knowledge covered previously in Yr8 and 9.
Current learning to be developed in the future within:	Skills to be developed – CAD software skills on Solidworks and 2D design

Assessment	Formative – Use of CAD and level of skills Summative – Final outcome of rendered drawing along with the two other TAs
Impact	Pupils to have knowledge and understanding of how to produce freehand sketches and communicate ideas effectively using specific techniques so that they are able to complete R039 independently.