
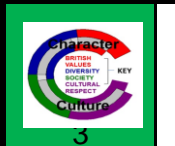




YEAR 7 - Bilton School Planning for Progress over Time - Design & Technology Programme of Study

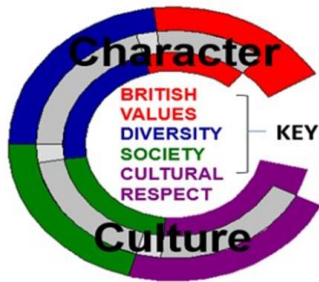
INTENT: To play a part in developing knowledge and understanding of the Design and Technology National Curriculum. Students are to apply this Resistant Materials knowledge over time and create a Memopad Holder using the skills learnt.

The bigger picture: This scheme plays an important role within the technology curriculum as it is essentially teaching skills from the National Curriculum and preparing students for the challenges of key stage 4. **The Next Step:** This unit is preparation for the Engineering Design Course at Key stage 4. In particular, it focusses on Unit R108: Which is focussed on planning and manufacture.

IMPLEMENTATION	Carousel - Topic 1 - Resistant Materials												
	Lesson:	 1	2	 3	4	5	 6	7	8	9	 10	11	12
		C & C Link - Health and Safety - Key fob Skills R108	Key fob Skills R108	C & C Link - Society Mind Map (Sheet 1)	Assessment 1 - 2d Ideas (Sheet 1)	Base	C & C LINK - British Values Survey (Sheet 2)	Final Design and Planning (Sheet 3)	Making Lesson	Final Design and Planning (Sheet 4 - PEG) 2	C & C Link - British and EU Safety PPE and Tools (Sheet 4)	Assessment 2 - Making R108	Evaluation (Sheet 5)
	Progress and assessment	Each teacher will FAR assess 2 aspects throughout the rotation and will assess using the criteria NYA up to L2D*. All assessment feedback will be put onto a <u>departmental tracker</u> sheet that will rotate throughout the carousel. 1. FAR: Classwork task – 2d ideas 2. FINAL ASSESSMENT - Practical											
	Homework	Overview: There will be 2 homework quizzes on Microsoft Forms online, this will be done via TEAMS. The assessments re out of 12 and in the format of a multiple choice question and answer. The focus of the questions is to increase students understadning of KS3 Resistant Materials, the national curriculum 6 key principles and careers linked to design. (The homeworks have been mapped across the department)											
	Key Vocabulary	Workshop, tools, apron, safety, tenon saw, work bench, files, jig saw, pillar drill, line bender, strip heater, design, initial ideas, manufacture, planning, evaluating											

Connected Knowledge

Reference to learning map: the big picture - This is a unit designed to prepare students for the future of design and technology at Bilton School as having workshop skills is a priority and plays a big part of the future curriculum. Following this it supports the journey into 6th form as 3D Design BTec is the chosen course and again has an abundance of material and manufacture aspects that can be utilised.



Character and Culture

Character and Culture is embedded within the curriculum map and coded as shown.

Cross curricular links - Maths, Science,

END POINTS:

At the end of the CAD Unit students will be able to: **(REFERENCE TO TOPICS, SOL, NC)**

- 1) Use the workshop safely
- 2) Use a range of hand tools and machinery
- 3) Have personalised their design

Buzz words/phrases: Workshop, tools, apron, safety, tenon saw, work bench, files, jig saw, pillar drill, line bender, strip heater, design, initial ideas, manufacture, planning, evaluating

Cross Curricular Links: Maths for measuring and working out. Science for the understanding of how things fit together

They will be able to do this by:

- 1) The end of a 6 week and 12 lesson Carousel