

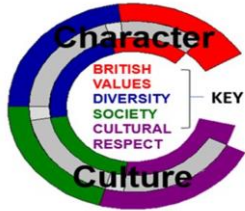
Bilton School Planning for Progress over Time - Programme of Study

INTENT: To assess students knowledge of the skills used in Y7-10 in order to successfully complete their Engineering Design Qualification

[U:\Teaching\Gabor \(Creative\) CMF\Tech MDH\CURRICULUM INTENT\YEAR 8\4 Electronics - Steady hand Game](U:\Teaching\Gabor (Creative) CMF\Tech MDH\CURRICULUM INTENT\YEAR 8\4 Electronics - Steady hand Game)

IMPLEMENTATION	Year 8										
	Week	1-2		3		4		5		6-10	
		1	2	3	4	5	6	7	8	9	10
Lesson	Design Brief/Soldering Fly-Leads	Mind Map - Soldering to Strip Board	2d design ideas R107, Soldering LED	3d Ideas R107, Soldering Switch	Final design idea - R107, Drilling holes for PCB	Tools Research R108, Soldering PCB	Transfer designs onto MDF, Soldering PCB	Drilling holes into backboard	Making R108	Evaluation R108	
Progress and assessment	<p>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.</p> <ol style="list-style-type: none"> FAR: Classwork task – 3d ideas FAR: Classwork task - Final design idea FINAL ASSESSMENT - Practical 										

Homework	Overview: There will be 2 homework quizzes on Microsoft Forms online, this will be done via TEAMS. The assessments are out of 12 and in the format of a multiple choice question and answer. The focus of the questions is to increase students understanding of electronics, the national curriculum 6 key principles and careers linked to design. (The homeworks have been mapped across the department)
Key Vocabulary	Health and Safety, Design Development, Soldering, needle nose pliers, wire cutters, risk assessment, workshop
Connected Knowledge	Reference to learning map: This unit will build a range of practical skill needed to be a successful student in design and technology at key stage 3. The skills gained in this project lead into a number of projects in years' 8 and 9.
IMPACT: Students will be able to measure progress using department F.A.R tracking sheets and on SIMS through the PLC. This will show progress over time and prepare students for key stage 4 learning at Bilton School.	



Character and Culture

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

Cross curricular links -
Art, Maths, Science, Business,
English - Literacy

END POINTS:

At the end of the EP Unit students will be able to:

- 1) Use machines safely
- 2) Use hand tools with some precision
- 3) Use research to select and develop a design

Buzz words/phrases: Interpret, Analyse, Evaluate

They will be able to do this by:

- 1) Using the pillar drill to make holes in the backboard
- 2) Soldering and Electronic Circuit.
- 3) Creating and Developing Designs in 2d and 3d.

