Engineering

Subject Leader: Mr T Priest tpriest@taptonschool.co.uk

Curriculum Intent: Through a combination of traditional and technological approaches, the Engineering programme will enable students to solve problems by learning from their mistakes when creating electronic and mechanical products and systems.

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	Core Knowledge	Procedural Knowledge
	Topics:	Students will:
	Material properties of metals.	Follow Engineering drawings to plan making a Phone Holder.
	Metalworking processes and tools.	Risk Assess.
	Lathe and milling machine operation.	Plan for making.
	Computer Aided Design.	Take part in practical lessons on manufacturing the Phone
	Quality control.	
		Explain why materials have been chosen
	Selection of materials	Explain why materials have been chosen.
		Evaluate the completed product including if it meets
	Extracting information from engineering drawings	tolerances.
	Health and safety and risk assessment.	
	Sustainable design.	
Homework:		
Homework is set on Satchel:One for every six hours taught.		
Homework will comprise a presentation on the negative impact of Technology and revision for tests.		
Assessment:		
Formative verbal and other feedback		
Exploration grade (research)		
Create grade (making)		
Evaluation grade		
Principles grade through a multiple-choice test.		
Presentation skills and content grade.		
Links to Personal Development:		
Iterative design.		
Dexterity and soldering skills.		
Coding.		
Self-evaluation of work.		
Presentation skills.		
How is my knowledge further developed in Year 9?		
In Year 9, students that opt to take Engineering will explore electronics and structures, create a can crusher and a		
torch/flashlight, evaluate their work and develop a good understanding of Computer Aided Design.		