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.

Core Knowledge	Procedural Knowledge
Topics:	Students will:
Electronic Engineering principles.	Design and make a bear toy that lights up and plays tunes, called an 'Ugly Doll'.
Electronic components.	57
·	Research into what would make a marketable doll.
Electronic symbols.	
	Learn theory about electronics principles.
Soldering.	
Programming.	Take part in practical lessons on soldering and component selection.
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Health and Safety in the workshop.	Receive guidance on programming their doll.
Impact of technology.	Evaluate the completed product.
Homework:	
Homework is set on Satchel:One for every six hours taught.	
Homework will comprise a presentation on The Positive Impact of Technology and revision for tests.	
Assessment:	
Earmative verbal and other feedback	

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 8?

We return to electronics in Y9. Y8 still involves research, creating a device stand, evaluation and content to do with materials and their properties, risk assessment and some machining.