Year 8 Design and Technology 'Develop' Curriculum Map – 2022-23

In the Design and Technology department, we aim to keep our curriculum fluid and open to change. This enables an open dialogue and continual reflection on content to ensure we deliver a valuable programme of study.

Year 8	Introduction to the World of	Future Engineers – Amplifier Project	Product design – Torch Project	Designing for a Sustainable Future –
	Designers			Architectural Design
Knowledge	The world of Design and	Design and Make challenge	Design and Make Challenge	Design and Make Challenge
	Technology.	Develop knowledge and skills in	Using CAD to create a desirable	Environmental issues throughout the
	Investigating the work of others and	working with electronics.	product.	World.
	their influence.	Lear about product evolution.	Working within constraints to time	Impact of design on society and the
	Development of core knowledge of	Developing a design brief and	and budget.	environment.
	materials:	specification.	Making a product for a client.	Sustainability - re purpose and reuse.
	Wood	Creating clear and creative design	Exploring modern and smart	6 Rs – Rethink, Refuse, Reduce,
	Metal	ideas.	materials, their applications and uses.	Reuse, Repair, Recycle.
	Polymers	Systems and control – input-process-	Material management.	Biomimicry.
	Textiles	output.	Industrial processes – laser cutting.	The Iterative design process and
	Papers and boards	Testing, fault finding and evaluating.		development of ideas.
	Analysis of famous products and how	Sustainability and environmental		Designing for others.
	these can be a rich source of	considerations.		Designing a home for the future in a
	information.			'third world country.'
Skills	Evaluative comments regarding	Design techniques.	• Development of the use of 2D	• Designing sustainable products.
	the work of others.	Creating good quality design	design.	 Modelling using a range of low-
	Able to assign materials to	ideas.	• Drawing shapes, vectorizing an	cost materials.
	products.	Creative thinking.	image.	• 3D drawing styles – isometric,
	 Understanding why products 	• Working with others.	-	perspective.
	have been successful or not.	 Identifying faults and 		Rendering techniques.
		recommending solutions.		Identifying and using sustainable
				materials.

The actual sequence of delivery will vary due to resourcing and or timetabling. By the year end all planned activities will have been covered.

Outside of lessons we also encourage pupils to attend our 'making club' which provides further opportunities to develop their making skills and knowledge of materials, processes, tools and equipment.