

Design Technology Resistant Materials Curriculum for KS3 2022/23

Class Group	Autumn Term		Spring Term		Summer Term	
	First half	Second half	First half	Second half	First half	Second half
Eta Year 7	Health & safety Timber & its properties. Making & testing simple wood joints.	Bird box - ideas, research, design, planning, constructing & evaluating.	Introduction to technical drawings. Plastics polymer & its properties. Introduction to CAD.	Create a basic electronic system. Night light - ideas, research, designs, constructing & evaluating.	Metal & its properties. Product analysis. Introduction to casting.	2D relief keyring - ideas, designs, modelling, casting, filing, polishing & evaluating.
Alpha Year 8	Health & safety. Timber & its properties. Making & testing various wood joints.	Desk tidy storage unit - ideas, research, design, planning, constructing & evaluating.	Plastics polymer & its properties. Develop technical drawings. Develop CAD skills. Design specification.	Clocks - ideas, research, design, planning, constructing & evaluating.	Metal & its properties. Develop product analysis. 3D keyring - ideas, designs, modelling, creating, polishing & evaluating.	Forces and motion. Pinball game - ideas, research, design, planning, constructing & evaluating.
Beta Year 8	Health & safety. Timber & its properties. Making & testing various wood joints.	Desk tidy storage unit - ideas, research, design, constructing & evaluating.	Plastics polymer & its properties. Develop technical drawings. Develop CAD skills. Design specification.	Clocks - ideas, research, design, planning, constructing & evaluating.	Metal & its properties. Develop product analysis. 3D keyring - ideas, designs, modelling, creating, polishing & evaluating.	Forces and motion. Pinball game - ideas, research, design, planning, constructing & evaluating.
Gamma Year 9	Health & safety. Timber & its properties. Making & testing various wood joints.	Wooden storage box - ideas, research, design, planning, constructing & evaluating.	Plastics polymer & its properties. Develop technical drawings. Develop CAD skills. Design specification.	Clocks - ideas, research, design, planning, constructing & evaluating.	Metal & its properties. Develop product analysis. 3D keyring - ideas, designs, modelling, creating, polishing & evaluating.	Motion – understand different types. Mechanical toys - ideas, research, design, planning, constructing & evaluating.
Delta Year 9	Health & safety. Timber & its properties. Making & testing various wood joints.	Wooden storage box - ideas, research, design, planning, constructing & evaluating.	Plastics polymer & its properties. Develop technical drawings. Develop CAD skills. Design specification.	Clocks - ideas, research, design, planning, constructing & evaluating.	Metal & its properties. Develop product analysis. 3D keyring - ideas, designs, modelling, creating, polishing & evaluating.	Motion – understand different types. Mechanical toys - ideas, research, design, planning, constructing & evaluating.