

Design & Technology Curriculum Milestones

Connecting	Big Idea	Year R	Years 1 & 2	Years 3 & 4	Years 5 & 6
Stone	(NC links)				
engineers	To be able to name, investigate and be	Understand what an engineer does.	Name a variety of engineers, explain what they do and investigate why they	Recognise and summarise the designs of engineers and appraise their	Utilise, explain, and investigate the ideas of engineers.
	inspired by engineers.		were famous.	designs.	
design	Design, make and evaluate.	Select, follow instructions and build a product.	Explore, design, and evaluate against a criteria.	Research, investigate and analyse a range of existing products.	Recognise, make predictions, and approve for a purpose of existing
					products.







				Generate, develop, and evaluate own ideas and products against your own design criteria.	Retrieve concepts, define, and debate against a design criteria to improve work, whilst considering the views of others.
tools	Use a range of appropriate tools and equipment to perform practical tasks.	Select and use correct tools and equipment appropriately for a product.	Recognise, utilise, and explain the appropriate tools for a task. Name, use and explain safety concepts when preparing materials.	Describe, utilise, and explain from a wider range of tools and equipment to perform practical tasks. Name, accurately use and explain	Determine, utilise, and explain effectively and confidently a wider range of tools and equipment to perform practical tasks accurately.







				safety concepts when preparing materials.	Describe, explain, and refine preparation of materials with precision.
materials	Investigate and select a wide range of appropriate materials and components.	Name and explore materials for purpose.	Select, compare, and investigate suitable materials for a purpose. Explore, understand, and explain how structures can be made stronger, stiffer, and more stable.	Identify, predict, and investigate the best suited materials for a purpose. Select, apply and reason how to strengthen, stiffen and reinforce structures.	Describe, explain and hypothesis the best suited material for a purpose. Retrieve, predict and illustrate how to strengthen, stiffen, and reinforce more complex structures.







mechanism	Investigate,	Name and explore	Explore, discuss, and	Select, explain, and	Identify, debate, and
	select, and	objects with	create products with	investigate different	evaluate different
	understand	different	different mechanical	mechanical system.	mechanical system.
	the effect of	mechanisms.	system.		
	mechanisms.			Recognise, explore,	Use, understand and
				and implement	assess electrical
				electrical systems in	systems in their
				their products.	products.
				Use, explain and	Describe, apply, and
				investigate the use	appraise the use of
				of computing to	computing to
				program, monitor	program, monitor
				and control their	and control their
				products.	products.

