

Year 1/2	AUT 2 – King and country.	SPR 2 To Infinity and Beyond.	SUM 2 Explorers.
Cycle A	Mechanism transport for the king/London transport	Structures Shelter for hibernating animal/an alien in a pre-decided climate/habitat.	Nutrition Smoothies using fruits from different places Sir Francis Drake may have travelled to.
	- What modes of transport are there in London? (Evaluate) - Using my research, what materials, joins and techniques am I likely to need to use? (Evaluate existing products and practice) - How do I create a successful wheel/axel mechanism? (Practice) - Can I design a mode of London transport? - Can I make a mode of London transport? - Can I evaluate my mode of London transport?	- What is a shelter? (Explore and research existing products). - Using my research, what materials, joins and techniques am I likely to need to use? (Evaluate existing products and practice) - Can I design a shelter for a hibernating animal/alien? - Can I make a shelter for a hibernating animal/alien? - Can I evaluate my shelter?	-What is a smoothie? (research existing products) -Can I explore flavour? (taste test) - Can I determine complimentary flavours? - Can I design a smoothie? - Can I make a smoothie? - Can I evaluate my smoothie?
Year 1/2	AUT 2 Remember, remember	SPR 2 Safe at Sea	SUM 2 Fire of London
Cycle B	Mechanisms Moving picture relating to Guy Fawkes / fireworks etc using levers/sliders/linkages	Structures Build a bridge that can weight-bear. Think about trusses/strong shapes.	Nutrition Pudding Lane Bakery cakes (victoria sponge recipe)
	- Why is Guy Fawkes famous? - What types of moving pictures are there? (Evaluate) - Using my research, what materials, linkages and techniques am I likely to need to use? (Evaluate existing products and practice) - How do I create a successful linkage mechanism? (Practice) - Can I design a moving picture? - Can I make a moving picture? - Can I evaluate my moving picture?	- What is a bridge? (Explore and research existing products – eg: beam, truss, suspension). - Using my research, what shapes, materials, joins and techniques am I likely to need to use? (Evaluate existing products and practice) - Can I design a bridge? - Can I make a bridge? - Can I evaluate my bridge?	- What is a cake? (research existing products) -Can I explore flavour? (taste test) - Can I determine complimentary flavours? - Can I design a cake? - Can I make a cake? - Can I evaluate my cake?

Year 3/4	AUT 2 Power and Conflict	SPR 2 Power and Conflict	SUM 2 Power and Conflict
Cycle A	Structure with pillars (colosseum)	Nutrition Pottage (Anglo Saxon soup, using seasonal vegetables and any grain available)	Electricity a moving card with an electrical component using a simple circuit
	- What is the colosseum? (Explore and research). - Using my research, what shapes, materials, joins and techniques am I likely to need to use? (Practice) - Can I design my colosseum? - Can I make a colosseum? - Can I evaluate my colosseum?	- What is pottage? (research existing products) -Can I explore seasonal flavours? (taste test) - Can I determine complimentary flavours? - Can I design a pottage? - Can I make a pottage? - Can I evaluate my pottage?	- Why is a simple circuit? - What types of moving pictures are there? (Evaluate) - Using my research, what materials, linkages, circuit components and techniques am I likely to need to use? (Evaluate existing products and practice) - How do I create a successful linkage mechanism and simple circuit? (Practice) - Can I design a moving picture? - Can I make a moving picture? - Can I evaluate my moving picture?
Year 3/4	AUT 2 – Stone age t Iron Age	SPR 2 – Ancient Egypt	SUM 2 – Earth and Beyond
Cycle B	Structures a stone age, bronze age or Iron Age settlement	Mechanisms CAMS Shadow Puppets with Egyptian theme – possibly mummies	Nutrition Scone/Biscuit – sweet or savoury. Can you classify ingredients by sweet/savoury?
	- What is a stone ager/bronze age/iron age settlement? (Explore and research settlements and wattle and daub). - Using my research, what materials, joins and techniques am I likely to need to use? (Evaluate the original techniques and practice) - Can I design a settlement? - Can I make a settlement? - Can I evaluate my settlement?	- What is a shadow puppet? - What types of CAM mechanisms are there? (Evaluate) - Using my research, what materials, CAM mechanism and techniques am I likely to need to use? (Evaluate existing products and practice) - How do I create a successful mechanism? (Practice) - Can I design a shadow puppet automaton? - Can I make a shadow puppet automaton? - Can I evaluate my shadow puppet automaton?	- What is a scone/biscuit? (research existing products) -Can I explore flavour? (taste test) - Can I determine complimentary flavours? (savoury/sweet) - Can I design a scone/biscuit? - Can I make a scone/biscuit? - Can I evaluate my scone/biscuit?

Year 5/6	AUT 2 – Power and Conflict	SPR 2 – Ancient Greece	SUM 1 – Climate Chaos
Cycle A	Structures Anderson shelters	Mechanisms and electrical systems Moon Buggies using microbits programmed to send a message to aliens	Nutrition Pizza - Think of foods from different places in the world
	- What is an Anderson shelter? (Explore and research). - Using my research, what shapes, materials, joins and techniques am I likely to need to use? (Evaluate existing products and practice) - Can I design an Anderson shelter? - Can I make an Anderson shelter? - Can I evaluate my Anderson shelter?	- What is a moon buggy? - What is a microbit? - What types joining techniques are there?(Evaluate mitre joins) - Using my research, what materials, wheel and axel mechanism and techniques am I likely to need to use? (Evaluate existing products and practice) - How do I create a successful mechanism? (Practice) - How do I program a microbit? - Can I design a moon buggy with a programmable element? - Can I make a moon buggy with a programmable element? - Can I evaluate my moon buggy with a programmable element?	- What is a pizza? (research existing products) -Can I explore flavour? (taste test) - Can I determine complimentary flavours? - Can I design a pizza? - Can I make a pizza? - Can I evaluate my pizza?
Year 5/6	AUT 2 Explorers	SPR 1 – Trading Places	SUM 1 – Rainforest
Cycle B	Structures – Endurance (ship) or a shelter for Shackleton to stay in	Nutrition Make a pie using a fair-trade recipe (using ingredients you found on your fair-trade supermarket trip). Can be sweet (chocolate/fruit) or savoury (vegetables).	Mechanism - Water pulley system for water transportation in the rainforest.
	- What is The Endurance? (Explore and research Shackleton's ship). - Using my research, what shapes, materials, joins and techniques am I likely to need to use? (Evaluate my research and practice) - Can I design The Endurance? - Can I make The Endurance? - Can I evaluate The Endurance?	- What is fair-trade? -What is a pie? (research existing products) -Can I explore flavour? (taste test) - Can I determine complimentary flavours? - Can I design a pie? - Can I make a pie? - Can I evaluate my pie?	- What is a water transportation system? - What types of mechanisms are needed? (Evaluate) - Using my research, what materials, mechanism and techniques am I likely to need to use? (Evaluate existing products and practice) - How do I create a successful mechanism? (Practice) - Can I design a water transportation system? - Can I make a water transportation system? - Can I evaluate my water transportation system?

