## **Rowley Park Academy**

## **Design and Technology Overview**

Year group			Autumn (12 wks)		Spring (12wks)		Summer (12wks)	
	Cycle 1	THE BIG PICNIC BAKE OFF WELLBEING – CLASS/SCHOOL COMMUNITY	You and Me How can we share our school experiences with our families?  TEXT: EYFS - Big Adventure Picnic	Let's Celebrate  How can we create a performance for our families?  Hook  Pumpkin Party  Santa Visit	Let's Visit  How can we show our families and friends the places we'd like to visit?  Hook  Mini Town	Ship Ahoy! How can we discover the history and secrets of the sea?  Hook Pirate Day	On Show  How can we retell a favourite story to our friends and families?  Hook Puppet Show	
EYFS	Cycle 2	Cooking and nutrition DT skills  Through all year groups during the first 2 week bake off challenge the cooking and nutrition skills will be met planned for and demonstrated by children.	You and me How can we share our school experiences with our families?  TEXT:  EYFS - Big Adventure Picnic	Let's Celebrate  How can we create a performance for our families?  Hook  Pumpkin Party  Santa Visit	Say hello to Community Heroes How can we say thank you to the people that help us?  TEXTS: Hook Fire station/visit	It's a Magical World  How can we transform an area of our school into a magical world?  Hook  Lichfield/Cannock chase fairy forest:	We Love Books  How can we tell people about our favourite story?  (Outcome: Nur. Become a favourite book character Rec. Rewrite a favourite book)  Hook Telford Wonderland	
			• Choose the right resour others to manage large it making snips in paper wit Learn new vocabulary. Ar Develop their small moto refining ideas and develo	ese are not mapped across a range of small tools, ince a variety of materials, to ces to carry out their own ems, such as moving a long h scissors. • Use a comfort ticulate their ideas and the r skills so that they can use	ss challenge packs as childred cluding scissors, paintbrush cols and techniques, experion creations, explaining the particle.  3-4 year plan. For example, choosing g plank safely, carrying large table grip with good control Reception with good someten a range of tools competen ent them Suggested tools: p	en's interests and child-initial interests and cutlery. • Begin to somenting with colour, design rocess they have used.  olds: g a spade to enlarge a small the hollow blocks. Use one-hawhen holding pens and pendion: ences. Show resilience and patly, safely and confidently. F	to enable them to work towards the early lated opportunities directs the learning. how accuracy and care when drawing. In, texture, form and function. • Share their whole they dug with a trowel. • Collaborate with inded tools and equipment, for example, icils.  Derseverance in the face of challenge. Return to and build on their previous learning, ing, paintbrushes, scissors, knives, forks and	

		Sparks Will Fly	<u>Heroes and Villians</u>	Buckets, Spades and Umbrellas
				How can we make a product to use at the
		How can we teach our families to be safe at	How can we share the impact of heroes past and	beach?
Year 1/2 Cycle A		home? (History/Art/ICT)	present and inspire others to be heroes? (History/PSHE)	(Geography/DT)
Cycle A		Children will design and create a Tudor house by	(nistury/P3nE)	Using their experience of the beach, children
		selecting tools and materials to help them		will create a product that can be used at the
		replicate a house on pudding lane during the	Hook	beach – they will test out materials and use
		great fire of London. They will compare this to a	Community Visitors/St John's ambulance	their knowledge to select appropriate tools,
		design that is representative of modern housing		materials and joining techniques that are best
		to see the impact the change of materials has had	Outcome	for the set task. They will plan their design
		on design development – linking this to safety.	Book	and then evaluate their product.
	Through all			Hook
	year groups	Hook		In school 'beach day' followed by an end of
	during the first	Visit from the fire station/or to the fire station		challenge pack visit to the seaside
	2 week bake			Outcome
	off challenge	Outcome		Sharing their beach products – having a stand
	the cooking	Film		at the Summer Fair.
	and nutrition	Coverage	Coverage	Coverage
	skills will be	D1.1a, D1.3a, D1.3b		D1.1a, D1.1b, D1.1c, D1.1d, D1.3a, D1.3b,
	met planned for and			D1.3c, d1.3d, D1.4a, D1.4c, D1.2b,
	demonstrated	We Are Family	Really Rural, Utterly Urban	Feeling hot, hot, hot or cold, cold, cold!
	by children.	How can we create a gallery of ourselves?	How can we produce a locally sourced traditional	How can we protect animals around the
V 4/0	.,	(History/Art)	breakfast for our family?	world?
Year1/2		Children will sombor desire and make manifes	(Geography/DT - Food)	(Geography/Art)
Cycle B		Children will explore, design and make moving	During this shallongs need, shildren will evalore	
		toys (roly polys) in this challenge pack. Children	During this challenge pack, children will explore rural and urban locations and link learning to food	Hook
		will explore toys old and new; making predictions and investigating travel, wheels size, joining	production. Using knowledge gained, children will	Safari Park
		techniques and materials. They will then use their	plan and produce a breakfast, sourcing their food	Salali Faik
		knowledge to design, construct and test out the	locally and demonstrating their knowledge and	Outcome
		toy against their designs. Could have a hook	understanding to their parents.	Fundraiser/Raise awareness
		challenge to DT – teams make your own marble	anderstanding to their parents.	Sponsored animal
		run.	Hook	Spensorea anima
		Hook	Lower Drayton Farm/Supermarket Visit/visit to local	
		Local Artist/Workshop/People in Portraits (Aston	butchers	
		Hall)		
			Outcome	
		Outcome	Breakfast Picnic for family members.	
		Gallery		
		Coverage	Coverage	Coverage
		D1.1a, D1.1b, D1.1d, D1.2a, D1.2b, D1.4a, D1.4b,	D1.5a, D1.5b, D1.5c, D1.5d, D1.5e, D1.5f	
		D1.4b		

		Catastrophe!	History Detectives	The Toymaker's Apprentice
		How can we help those affected by?	How can we communicate who made the earliest	How can we create a toy to encourage
		(Geography/DT)	changes to Britain?	communication between younger children?
Year 3/4		(0008.0011/101/	(History/Art/DT)	(History/DT)
Cycle 1		DT based shelter designs/protective element	(1.1000.1771.1.47.2.17	(1.1000.17)
0,0.0 =		and a succession and a graph procession of the succession of the s	Some elements of their Museum in the box may	DT – Investigate and technically understand
		Hook	require DT skills.	levers/pulleys/axels to make a toy.
		British Red Cross Introducing Emergencies/		
		Charity Visit/Freshwater Workshops	Hook	Hook
	Through all	Outcome	BMAG Museum	Toy Workshop/Childhood Museum
	year groups	Charitable act to support community	Outcome	Outcome:
	during the first	,	Museum in a box	Toy workshop with their identified class.
	2 week bake off			, , , , , , , , , , , , , , , , , , , ,
	challenge the	Coverage	Coverage	Coverage
	cooking and	D1.2a, D2.1bD2.4a. D2.4b, D2.4c	_	D2.1b, D2.2a, D2.3a, D2.3b
	nutrition skills			
	will be met	Around the World in 80 Beats	Deep Water	It's All Greek to Me
	planned for and	How can we represent music from around the	How can we have a positive impact on our	How can we celebrate the legacies left by
	demonstrated	world?	waterways?	significant world civilisations?
Year 3/4	by children.	(Geography/Music/Digital Art)	(Geography/Art)	
Cycle 2				(History/Sport/Art)
			Children will learn about the different types of	
			bridges and use their learning to plan and design a	
		Hook	prototype for the Bridge challenge – Create a	Hook
		Musical Experience	prototype of a bridge idea to allow crossing of the	sports stadium/sports event/visiting sports
		Outcome	river in forest school to share with Ms Lipton.	men/women Outcome
		Musical performance	Children build upon knowledge of investigate	Sporting Event
			Strengthening, stiffening and reinforcing structures	Sporting Event
			and use this to develop more complex structures.	
			Hook	
			Visit to local waterway	
			Canal Trip	
			Canal IIIp	
			Outcome	
			Presentation/communication with the local council	
			about improving local waterways.	
		Coverage	Coverage	Coverage
			D2.4a, D2.4b, D2.4c, D2.3a, D2.1b, D2.3b, D2.1b	
		<u>Lest We Forget</u>	The Power of Words - Literature Focus	Year 5
		Can we transform an area of our community	Can we create an ebook to share with a partner	Castle Attack!
		through 3 dimensional art so that we remember	school?	Can we engineer a piece of equipment to
Year 5/6		fallen heroes?	(English)	attack a castle?
Cycle 1		(History/Geography)		(Geography, History, DT)

	Through all year groups during the first 2 week bake off challenge the cooking and nutrition skills will be met planned for and demonstrated by children.	Hook Staffordshire Regimental Museum/Arboretum Army experience day Outcome Remembrance themed sculpture	Hook Author/Illustrator Visit Outcome ebook	Movement and mechanisms – levers/pulleys/gears atcLaunch objects, get through doors etc  Hook Local (Stafford) Castle Outcome Banquet inclusive of attacking a castle competition.  Year 6 Let Us Entertain You Can we entertain an audience? (Art, Social Enterprise, Design, Music) TEXT: THE SCRIPT Hook Theatre/Backstage at the Theatre Outcome Performance
		Coverage	Coverage	<b>Coverage Year 5 –</b> D3.1a, D3.2a, D3.2b, D3.3a, D3.3b, D3.3c, D3.4a, D3.4b, D3.4c
Year 5/6 Cycle 2		Space Infinity! Can we code to create a space game? (History/Art/DT)  Children will become Martian Explorers and investigate the question - how does the ExoMars Rover Work? (based on European Space Agency's (ESA) new robotic rover Rosalind Franklin). They will understand the need for exploration robots, different types of motions and mechanisms and learn about how they function; including elements around design proposals, circuit diagrams, hydraulic and pneumatic systems. Creating and testing their own vehicles.  Hook Planetarium and coding session Outcome Shared Space themed game	Food v Man  Can we promote Fairtrade through a healthy tuckshop? (Geography/DT/History)  Children will explore the theme of fair-trade and food and resource production and conditions. Using their knowledge, they will then as a group, plan and produce fair trade healthy tuckshop products for the rest of the school.— including skills such as carrying out cooking techniques and recipes.  TEXT: THE RAINFOREST, THE EXPLORERS  The Mayan Civilisation  Hook Cadbury's world Outcome  To run a healthy tuckshop for the rest of the school.	Year 5 We Are Britain – Castle Attack! Can we engineer a piece of equipment to attack a castle? (Geography, History, DT)  Hook Local (Stafford) Castle Outcome Banquet - Attacking a castle competition  Year 6 Let Us Entertain You Can we entertain an audience? (Art, Social Enterprise, Design, Music) TEXT: THE SCRIPT Hook Theatre/Backstage at the Theatre Outcome Performance

			Coverage
	Coverage	Coverage	
	D3.1a, D3.1c, D3.2b, D3.3a, D3.3b. D3.3c, D3.4a, D3.4b,	D3.1b, D3.1c, D3.5a, D3.5b, D3.5c, D3.5d, D3.5e	
	D3.4c		