





"For with God, everything is possible" (Matthew 19:26)

Through our vision, we serve our community by providing an inclusive, happy, secure and caring Christian environment where we believe that everything is possible. In our DT curriculum, we promote security by explicitly teaching safety skills in all units of work. We believe that God loves all his children unconditionally and values the uniqueness of the individual and recognise the diversity and range of contributions that each child can make. We are conscious of sustainability within our DT curriculum and ensure that the materials used are reused or recyclable. We understand that children must be aware of their contributions now and in the future. Our Food and Nutrition curriculum promotes diversity as children appreciate foods from a range of cultures. We recognise that DT is a subject which will equip the children for a range of careers in the future, demonstrating that 'everything is possible'.

Following the Church of England's Vision for Education 'Life in all its fullness' John 10:10, we provide a high-quality education within a creative, stimulating, encouraging and mutually supportive environment where children are enabled to develop the skills they require to become successful in Design and Technology.



The spiritual development of our children is a priority across all areas of the curriculum. At Queen's Park CE/URC Primary School, we define spirituality as connecting with ourselves, others, the world and God, through whom, everything is possible (Matthew 19:26).

We explore spirituality through our Spiritual Capacities (our Spiritual C's) which are curiosity, creativity, compassion, captivation, consciousness, being courageous contributors and having apportunities to contemplate.

We understand the importance of both planned and spontaneous opportunities in all aspects of our CROWN Curriculum. This is evidenced in our class reflections book, through 'spirituality in the spotlight' and through speaking to our children.













Challenge Resilience Opportunities Wellbeing kNowledge
Our five Crown Principles drive our Design & Technology
curriculum.



Challenge

Through the 'challenge' curriculum driver we want our children relish challenges that being a designer can bring: to follow the design, make, evaluate process towards a final outcome/product, to use creativity and imagination, to make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values.

Resilience

Through the 'resilience' curriculum driver, we encourage children to take risks, become resourceful, innovative, enterprising and capable citizens within in DT curriculum. Children are encouraged to 'make mistakes' during the design, make, evaluate process and learn from them.

<u>Opportunities</u>

Through 'opportunities', we raise aspirations to broaden our children's horizons – opening their eyes to the myriad careers they might pursue. Through careful planning, visitors attend school to inform children of their careers linked to technology. We provide tangible role models to raise our pupils' aspirations to inspire them to work even harder to be the best that they can be. We give children real life design tasks and scenarios in DT. We want our pupils to have a clear understanding of the link between achieving well and having goals for the future.

Wellbeing

At Queen's Park, we understand that happiness is linked to personal growth, health and development. We ensure our children are happy, healthy individuals. In DT, we ensure there is a huge emphasis on keeping safe when using tools and equipment. In Food & Nutrition, food handling and hygiene is taught before the children 'make'. Healthy diets and lifestyles are embedded within the curriculum planning. With 'wellbeing' as a curriculum driver, we give children the confidence to thrive in a diverse, global society and be respectful citizens with British and Christian Values at the core.

kNowledge

Through the 'kNowledge' curriculum driver, we encourage our children to be resourceful learners. It is uniquely challenging and coherent to our children. The knowledge imparted in DT is crafted by our curriculum leader and DT subject leader to ensure that all pupils achieve secure subjective and disciplinary knowledge in DT. We ensure there is a scheme of knowledge built within our DT curriculum and there are explicit links with other subjects (STEM) All our teachers teach with the aim to ensure pupils have sufficient knowledge to progress through primary school and beyond.



Being a designer means that disciplinary and substantive knowledge complement each other harmoniously. Design and Technology disciplines such as textiles, building structures etc are all given the same importance within our curriculum.

Through disciplinary literacy, all children read like designer: reading design briefs, recipes, and quality non-fiction texts to support their DT knowledge and understanding.





Design & Technology Long Term Plan EYFS - KS2

Queen's Park 'Crown Curriculum' - all our planning is based on our key principles and intent for our curriculum							
Challenge Resilience Oppartunities Wellbeing kNawledge							
Уеаг Стоир	Year Group Topics and skills can be taught in any order to enable creative planning of our 'Crown Curriculum'						
D&T Strand	Structures.	Mechanisms.	Textiles.	Food technology			
EYFS	Shakers and carry	Sliders and hinges	Hale punch/early needle work	Baking			
	baxes ar rackets	(simple A4 card)	Handa's surprise				
Year I	Lever Head Puppet (*Pragressian fram EYFS – Design, Make, Exaluate pracess)		Rainbow fish / Hungry caterpillar	Fruit & Vegetables			
				Smoothie making			
			(Progression from EYFS – running	* <u>cutting</u> and blending			
			stitch through pre-cut hales)	(*Progression from EYFS is design,			
				make and evaluate process)			
				(*Links to PSHE and links to science -			
				plants, categorising fruit and veg)			
Year 2	Cardboard structures		Puppets	A Balanced Diet			
	Emergency Vehicles			Make a Wrap			
	Make the structure		(Progressian from EYFS – Design,	*Bridge and claw grip is taught			
	 Using wheels & axles (4whl/model) 		Make, Evaluate)	(*Progressian from YI – categorise food			
	(Pragressian from EYFS and YI – Design,		(Recap from YI – sew on buttons	types and explore sugar – PSHE link)			
	make and evaluate)		and complete running stitch)				
			•	*Progressian fram Y1 - design 3			
	+Use Digital Paint in Design process			possible options before making)			

		U	00 0		
	Structures	Mechanisms.	Textiles.	Faad	Electranical campanents
Year 3	Cardbaard structures	Hydraulics		Eating Seasonally	
				Savaury Tarts	
	Stilt hauses (Linked	Hydraulic Head			
	to English - 'Flaad')			(Pragressian fram	
		(*Recap an wheels		KSI – .chn.learn	
	(Pragressian fram Y2	and axles & levers		abaut	
	- Making the	befare teaching		importing/exporting	
	structure stable and	Hydraulics)		and climates food	
	fit far purpase)			graw, staring and	
		•		.cleaning a knife,	
				kitchen prep and	
				faad cantamination)	
Year 4	Structures /		Cushian	'Eram Farm ta Fark'	Structures / Electronical
7,200 T	Electronical			TAXABLE TABABLE AND TABLE	.companents
	.companents		(recap on buttons and	Mamma Mia! What a	
	2201920000		running stitch - teach	Tasty, Healthy	Tarches
	Tarches		back stitch)	Balaanese	(*Links to Science)
	(*Links to Science)				(Progressian – recap an
	(Pragressian - recap			(recap an all prev.	all structures taught
	an all structures			learning. Appropriate	before intro to electronics
	taught befare			packaging that	- purpase / audience)
	intraduction to			reflects a recipe,	, , ,
	electronics - purpose			.caaking.safely -	+Using Tinkercad to
	/ audience)			using hat	Design
				pars/equipment)	ľ
	+Using Tinbercad to				
	Design				
Year 5		Cams Taus	Baa		Electronics

#EverythingIsPossible

		Linked to rainfarests (<u>recap</u> an all previous mechanisms before introduction to cams)	(recap on all skills buttans, running stitch, back stitch – teach blanket stitch for decarative purposes)		Wabble tays (Pragression- recap on all previous learning liked to electrical components)
Year 6	<u>Fairgraunds</u>			Came Dine with Me	Fairgraunds
	(<u>recap</u> an all			(<u>cansalidating</u> all	(<u>recap</u> on all electrical
	structures wark			previous skills and	.campanents.w.ark
	previously taught			contributing to a	previously taught.
	Children are expected			.class.cookbook)	Children are expected to
	to design, make and				design, make and evaluate
	evaluate with a				with a detailed brief)
	detailed brief)				-

DT is taught three times throughout the year (with the exception of Year 6). See Long Term Plan document on website.



					- (20°C)
+‡+	CROWN	Pragressian af knawledge, vac	abulary, skills and	.suggested assessment autcames	CROWN
	Textiles	Key knowledge progression	Key vocabulary	Key skills progression	Assessment outcome
H		Progression in disciplinary and substant	tive knowledge. Progres	sion in designing, making and evaluating	
ı	EYFS -	I know which materials to use to weave	Vocabulary to be	Explore different materials freely to	Using fine
			modelled in teaching	develop their ideas about how to use	motor skills
	Weaving	I know to use tools and materials in the	time and within	them and what to make.	to weave
	(fine motor	craft area	provision	Weaving materials within the provision – led by adult	(linked to ELG)
	skills)	I know the names of some tools and	sew	led by adult	ELG)
	skills)	equipment	weave	Draw different materials and explore	
			decorate	different textures.	
			join		
			design, make, evaluate		
ı	Year 1 –	Key knowledge to be explicitly taught	Vocabulary on Crown	Design	Sewing on a
	Sewing a	throughout unit of work (and revised	Planners (to be	I can choose material and colours to make	button
	button	constantly through retrieval practice)	explicitly taught)	my fish / caterpillar	following the
		I know how to sew on a button	fabric (noun)	Make	design, make.
		TRIOW HOW to Sew Oil a battori	mark out (verb)	I can sew on a button	evaluate
		I know the equipment I need to sew	needle (noun)	I can glue on decorative pieces	process.
			thread (noun)		
		I know how to move a needle and thread safely	decorate (verb).	Evaluate I can say what I like and dislike about my	
		-	Other key vocabulary	fish / caterpillar	
			to be used in this unit		
			of work		
			Join		
ı	Year 2 –	Key knowledge to be explicitly taught	Vocabulary on Crown	Design	Creating a
	Hand	throughout unit of work (and revised	Planners (to be		hand puppet
L	puppets	constantly through retrieval practice)	explicitly taught)		using a

Tagether, we believe, achieve and enjoy

Our progression documents have been created by the Curriculum Leader and DT Subject Leader to ensure clear progress in the disciplines of

Design & Technology we focus on at Queen's Park: Structures and Mechanisms, Food and Nutrition, Electrical Components and Textiles.

The progression documents show key knowledge (substantive knowledge), key vocabulary and key skills (disciplinary knowledge) and assessment outcomes from EYFS – Year 6.

Textiles	Key knowledge progression	Key vocabulary	Key skills progression	Assessment				
				outcome				
	Progression in disciplinary and substantive knowledge. Progression in designing, making and evaluating.							
EYFS -	I know which materials to use to weave	Vocabulary to be	Explore different materials freely to develop	Using fine				
_		modelled in teaching	their ideas about how to use them and what	motor skills				
Weaving	I know to use tools and materials in the craft	time and within	to make.	to weave				
(fine motor	area	provision	Weaving materials within the provision – led	(linked to				
skills)	I know the names of some tools and	sew	by adult	ELG)				
	equipment	weave	Draw different materials and explore					
		decorate	different textures.					
		join						
		design, make, evaluate						
Year 1 –	Key knowledge to be explicitly taught	Vocabulary on Crown	Design	Sewing on a				
Sewing a	throughout unit of work (and revised	Planners (to be explicitly	I can choose material and colours to make my	button				
button	constantly through retrieval practice)	taught)	fish / caterpillar	following the				
		fabric (noun)		design,				
	I know how to sew with a running stitch	, ,	Make	make,				
		mark out (verb)	I can sew with a running stitch	evaluate				
	I know the equipment I need to sew	needle (noun)	I can glue on decorative pieces	process.				
		thread (noun)						
	I know how to move a needle and thread safely	decorate (verb).	Evaluate I can say what I like and dislike about my fish					
	•	Other key vocabulary to	/ caterpillar					
		be used in this unit of work						
		Join						

Above is a snapshot of the textiles progression document. See progression documents on website for full details.



Vocabulary is V.I.T.A.L in Design & Technology

Valued

We value vocabulary in Design & Technology and in everything we do.

Identified

Design & Technology vocabulary is identified by the DT subject leader and is explicitly planned for.

Taught

Vocabulary is explicitly taught in every lesson. Our Crown Planners are used as a teaching tool for key DT vocabulary and the DT medium term plans include additional vocabulary to be taught.

Applied

Once vocabulary is taught, it is applied. Children apply their vocabulary in their assessment outcomes in DT.

Learned

Vocabulary is revisited and relearned. Vocabulary sticks in the children's long-term memory. Lesson by lesson, year by year, children revisit and relearn key DT vocabulary.



Through an 'explosion of experiences', our youngest designers are exposed to the foundations of their DT learning. Carefully planned DT knowledge, skills and experiences are provided for our children. High quality

books, stories and rhymes are the beating heart of our DT curriculum in EYFS. DT vocabulary is planned for. Staff are role models in demonstrating DT vocabulary and this is further enhanced in our excellent provision. The foundations of DT learning in EYFS is linked to Year I and beyond.

Year 1 to Year 6

Year on year, children will build upon their DT knowledge, skills and vocabulary. The curriculum leader and DT subject leader have created a meaningful, sequential learning journey through all strands of DT. Careful curriculum thinking and planning ensures that our children have the subject knowledge and components embedded in their long-term memories.





Pedagogy



Both our staff and children are enthusiastic about DT. Through ongoing CPD, we strive to ensure our teachers have expert knowledge of the Design & Technology they teach. Our pedagogy is firmly based upon our curriculum intent of embedding concepts into long-term memory so that they are able to be recalled, to ensure substantive and disciplinary knowledge and skills can be applied fluently.

Our 'Queen's Park Quality First Teaching' model ensures that lessons are effectively sequenced so that new knowledge and skills build on what has been taught before and towards defined end points.

We firmly believe that all children should have full access, including those with additional needs, to our DT curriculum therefore lessons are scaffolded where appropriate in order to meet the needs of all our children



The <u>sequence of lessons</u> across Design & Technology follows the same structure:

Phase 1 -Revise

- Pre- assessment task
- · Prior learning revisited from previous years
- Key question introduced
- ·Crown Planner shared

Phase 2 -New Jearning

- Medium term planning to inform lessons following: Design, Make and Evaluate
- Vocabulary explicitly taught
- Reference to Crown Planners throughout
- Queen's Park Quality First Teaching

Phase 3 -Review

- •Post-assessment task. Final 'make'.
- ·Children know more and remember more
- ·Can evaluate their skill effectively

<u>Each lesson</u>, <u>within the sequence</u>, follows the structure so prior knowledge is constantly revisited and transferred to long term memory.

Phase 1 -Revise

- · Vocabulary (some will be tier 3 subject specific words)
- · Crown Planner shared
- Previous 'step' in the sequence revisited

Phase 2 -New Jearning

- Queen's Park Quality First Teaching
- New knowledge taught
- ullet New skills taught demonstrated by teacher
- Crown Planners to be used as a point of reference

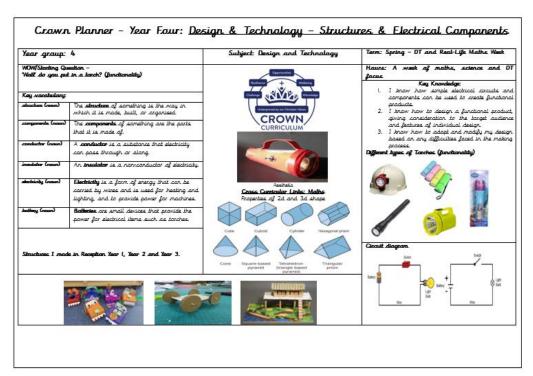
Phase 3 -Review

- · Review of skills demonstrated
- Formative assessment



Our Crown Planners support our children with vocabulary and key knowledge for each unit of work. They enhance children's understanding

of key concepts, present information clearly and promote appropriate discussion.





We understand that we may not see the true impact of our DT curriculum on our children as our DT curriculum is just the beginning of a lifetime of learning.

Our well-constructed and well-taught DT curriculum leads to great outcomes. Our results are a reflection of what our children have learnt. At Queen's Park, our philosophy is that broad and balanced leads to great outcomes and meeting end points at the end of each key stage. National assessments are useful indicators of the outcomes our children achieve.

We ensure all groups of children are given the knowledge and cultural capital they need to succeed in life. We strive to ensure that our children are equipped with the skills (through a growth mindset approach) to fluently be able to retrieve key facts from their semantic memory.

The quality of our children's work, at every stage, is of a high standard. All learning is built towards an end point and at each stage of their education, we prepare our children for the next stage.

We ensure all our children read to a stage appropriate level and fluency. Through disciplinary literacy in DT lessons.

The impact of Queen's Park DT curriculum is measured through the following:

- Assessment at the end of each unit of work
- Vacabulary and knowledge are assessed at the end of each lesson and at the end of each sequence
- Pupil voice
- · Progress evident in children's books and record of experiences
- · Seeking views of parents where appropriate