





"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'.













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

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

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Design and Technology Long Term Plan



| Queen's Park 'Crawn Curriculum' - all aur planning is based an aur key principles and intent far aur curriculum | | | | | | | | | | |
|--|---|---------------------------------|--------------------------------------|---|--|--|--|--|--|--|
| Challenge Resilience Appartunities Wellbeing kNawledge Year Group Topics and skills can be taught in any order to enable creative planning of our 'Crown Curriculum' | | | | | | | | | | |
| D&T Strand | | | Textiles. | Faad .technalagy | | | | | | |
| EYFS | Shakers and carry | Sliders and hinges | Hale punch/early needle wark | Baking | | | | | | |
| | baxes ar rackets | (simple A4 card) | Handa's surprise | - | | | | | | |
| Year I | Lever Head Puppet | | Rainhaw fish / Hungry caterpillar | Fruit & Vegetables | | | | | | |
| | | | | Smaathie making | | | | | | |
| | (*Pragressian fram EYFS – Design, Make, | | (Pragressian fram EYFS – sew an a | * <u>cutting</u> and blending | | | | | | |
| | Evaluate process) | | buttan) | (*Pragressian fram EYFS is design, | | | | | | |
| | · | | | make and evaluate process) | | | | | | |
| | | | | (*Links to PSHE and links to science – plants, categorising fruit and weg) | | | | | | |
| Year 2 | Cardbaard structures | | Puppets | A Balanced Diet | | | | | | |
| | Fire Engine (Linked to History – Great Fire | | | | | | | | | |
| | af Landan) | | (Pragressian fram EYFS – Design, | Make a Wrap | | | | | | |
| | Make the structure | | Make, Evaluate) | *Bridge and claw grip is taught | | | | | | |
| | Using wheels & axles (4whl/madel) | | | (*Pragressian from YI – categorise food | | | | | | |
| (Pragressian from EYFS and YI – Design, | | (Recap fram YI – sew an buttans | types and explare sugar – PSHE link) | | | | | | | |
| make and evaluate) | | and camplete running stitch) | | | | | | | | |
| | | | *Pragressian fram YI – design 3 | | | | | | | |
| | +Use Digital Paint | in Design process | | passible aptions before making) | | | | | | |

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Design and Technology Long Term Plan



| | Structures | Mechanisms | Textiles | Food | Electronical components |
|--------|---|-----------------------------|-------------------------------|---|--|
| Year 3 | Cardboard structures | Hydraulics | | Eating Seasonal crumbles (Progression from KS1 – chn | |
| | Stilt houses (Linked to English – 'Flood') | Rising sarcophagus | | learn about importing/exporting and | |
| | | (*Recap on wheels and axles | | climates food grow, storing | |
| | (Progression from Y2 – | & levers before teaching | | and cleaning a knife, kitchen | |
| | Making the structure stable | Hydraulics) | | prep and food | |
| | and fit for purpose) | | | contamination) | |
| | | *Links to Ancient Egypt | | 1 | |
| | | (History) | | | |
| Year 4 | Structures / Electronical | | Cushion | 'From Farm to Fork' | Structures / Electronical compone |
| | components | | | | |
| | | | (recap on buttons and running | Mamma Mia! What a Tasty, | Torches |
| | Torches | | stitch – teach back stitch) | Healthy Bolognese | (*Links to Science) |
| | (*Links to Science) | | | l | (Progression – recap on all structure |
| | (Progression – recap on all | | | (recap on all prev. learning. | taught before intro to electronics - |
| | structures taught before | | | Appropriate packaging that | purpose / audience) |
| | introduction to electronics – | | | reflects a recipe, cooking | |
| | purpose / audience) | | | safely – using hot | +Using Tinkercad to Design |
| | Ulaine Tiskers of to Desire | | | pans/equipment) | |
| Year 5 | +Using Tinkercad to Design | Cams Toys | Bag | | Electronics |
| rear o | | Linked to rainforests | (recan on all skills buttons. | | Wobble tovs |
| | | (recap on all previous | running stitch, back stitch – | | (Progression- recap on all previous |
| | | mechanisms before | teach blanket stitch for | | learning liked to electrical component |
| | | introduction to cams) | decorative purposes) | | +Crumble to operate Wobble Toy |
| Year 6 | Fairgrounds | | | Come Dine with Me | Fairgrounds |
| | (recap on all structures work | | | (consolidating all previous | (recap on all electrical components w |
| | previously taught. Children | | | skills and contributing to a | previously taught. Children are expec |
| | are expected to design, | | | class cookbook) | to design, make and evaluate with a |
| | make and evaluate with a | | | í . | detailed brief) |
| | detailed brief) | | | | |

#EverythinglsPossible



| ÷‡÷ | CROWN | Pragressian of knowledge, vac | ahulary, skills and | . suggested assessment autcames | CROWN | | |
|-----|----------------|---|--|---|--------------------|--|--|
| | Textiles | Key knowledge progression | Key vocabulary | Key skills progression | Assessment | | |
| | | | | | outcome | | |
| ı | | Progression in disciplinary and substantive knowledge. Progression in designing, making and evaluating. | | | | | |
| Г | 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 soult | [210) | | |
| | , | 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 | 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. | | |
| | | I KIIOW IIOW to SEW OII a DULLOII | 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) | | l . | | |
| | | I know how to move a needle and thread | decorate (verb). | Evaluate I can say what I like and dislike about my fish / caterpillar | | | |
| | | Salely | Other key yeeshulsey | | | | |
| | | | | | | | |
| | | | 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 | | |
| | | safely Key knowledge to be explicitly taught | thread (noun) decorate (verb). Other key vocabulary to be used in this unit of work Join Vocabulary on Crown | I can glue on decorative pieces Evaluate I can say what I like and dislike about my fish / caterpillar | process | | |

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.

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.

#EverythingIsPossible



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

Zesson Structure

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 -<u>Ne</u>w learning

- Medium term planning to inform lessons following: Design, Make and Evaluate
- Vacabulary 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

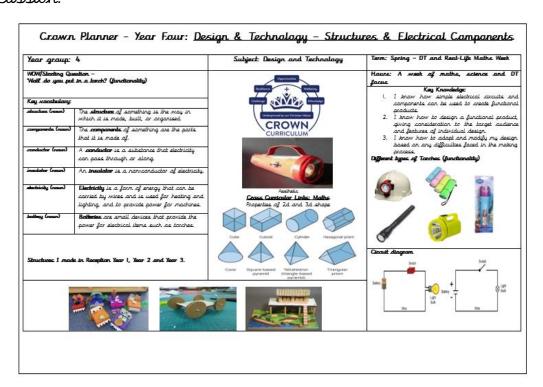
- · Queen's Park Quality First Teaching
- · New knowledge taught
- · New skills taught demonstrated by teacher
- Crown Planners to be used as a point of reference

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
- Vocabulary 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