

| Concept Progression for DT Cycle B | | | | | |
|------------------------------------|------|---------------|---------------|---------------|--|
| Key DT | EYFS | Years 1 and 2 | Years 3 and 4 | Years 5 and 6 | |
| Concepts | | | | | |



| | | | | in the second se |
|--------------|-------------------|--|--------------------------------------|--|
| Appraise and | Diwali | Tudor Houses | Christmas decoration (electric | WWII Planes |
| Analyse | Ch to look at | Ch will look at their own homes | components) | Ch will look at the design of |
| | images and | and consider the materials they | Ch will look at existing products | different planes use in WW2, |
| | explore Diwali | are made from. | (decorations). Ch will analyse why | looking in more detail at the |
| | artefacts (Diya | Ch will research Tudor houses | people buy these products. | Messerschmitt, Junker, Lancaster |
| | lamps). | and find out about the materials | Ch to look at how lights enhance | and Spitfire. |
| | Ch to observe the | used. | the products. | Ch will identify the features of the |
| | use of Diyas and | Ch will compare modern and | Ch will evaluate current products. | planes to aid design. |
| | their purpose. | Tudor house building materials | | Chn will understand why the |
| | | | Italian cuisine | planes have adapted in |
| | | Structures | Ch will carry out sensory | comparison to World War I |
| | | Ch will go on a walk and/or look | evaluations of a variety of | |
| | | at photographs of the local | ingredients and products. | |
| | | area to explore structures such | Ch will record the evaluations using | Greek Food |
| | | | • | |
| | | as playground equipment, street furniture, walls, towers and | e.g. tables and simple graphs. | Ch will explore modern Greek |
| | | | | food. Ch will look at seasonality |
| | | bridges e.g. What are the | Sandwiches and Packaging | and how a variety of ingredients |
| | | structures called and what is | Ch to investigate existing products | are grown. |
| | | their purpose? Who might use | and analyse how they are made. | Ch will discuss the purpose of the |
| | | them? What materials have | Ch to disassemble products to | products that the children will be |
| | | been used? Why have these | understand how they work. | |
| | | been chosen? How have the | Ch to understand and apply the | designing, making and |
| | | parts been joined together? | principles of a healthy and varied | evaluating and who the products |
| | | How have the structures been | diet. | will be for. |
| | | made strong enough? How | | |
| | | have they been made stable? | Moving pictures | Shadow Puppet Theatre |
| | | Ch to draw or photograph the | Ch to investigate and analyse | |
| | | structures they have been | books and, where available, other | Children will evaluate existing |
| | | exploring and label with the | products with lever and linkage | shadow puppet productions, |
| | | correct technical vocabulary in | mechanisms. | creating a brief for their own |
| | | relation to the structure, | Ch to discuss how the pictures | product. Ch will pick out |
| | | materials used and shapes e.g. | move, what part of the picture | elements they will include in their |
| | | wall, tower, framework, base, | moves, how it works, the effect it | own products. |
| | | joint, metal, wood, plastic, brick, | has and how well it works. | Ch will learn that Shadow |
| | | triangle, square, rectangle, | | puppetry is used to entertain |
| | | | | crowds. Theatres have been used |
| | | cuboid, cube. | | since the Ancient Greeks and are |
| | | | | still used today. |
| | | | | Ch will look at Ancient Greek, |
| | | | | Tudor and modern architects. |
| | | | | Ch will look at how there are |
| | | | | similarities and differences in |
| | | | | theatre design. |
| | | | | ineaire design. |



| Technical | Diwali | Tudor Houses | Christmas decoration (electric | WWII Planes |
|-----------|----------------------|---------------------------------------|---|---|
| Knowledge | Ch to develop the | Ch will learn how doors and | components) | Ch will follow health and safety |
| | techniques used to | windows open and close using a | Ch to understand and use | rules when using wire cutters and |
| | manipulate clay | hinge. | electrical systems in their products, | wire. |
| | (rolling into balls, | Ch will look for hinges in the | such as series circuits incorporating | Ch to use a ruler to note |
| | squeezing clay, | classroom. | switches, bulbs and buzzers. | measurements and ensure |
| | pulling and | | Ch apply their understanding of | accurate dimensions. |
| | pinching with | Fruit salad | computing to program and control | |
| | fingers, carving | Ch will learn the difference | their products. | Greek Food |
| | with tools and | between fruits and vegetables | Ch to know and use technical | Ch will know how to use utensils |
| | smoothing). | by sorting them into relevant | vocabulary relevant to the project. | and equipment including heat |
| | | groups. | Italian cuisine | sources to prepare and cook |
| | | Ch will learn how to prepare | Ch know how to use appropriate | food. |
| | Fairy Tales | fruits – peel, chop, slice etc. (life | equipment and utensils to prepare | Ch will understand about |
| | Ch to develop skills | skills). | and combine food. | seasonality in relation to food |
| | to use simple tools | Ch will learn and understand | Ch know about a range of fresh | products and the source of |
| | and techniques | that fruit is healthy for us in our | and processed ingredients | different food products. |
| | competently and | day-to-day diet. | appropriate for their product, and | Ch will know and use relevant |
| | appropriately | | whether they are grown, reared or | technical and sensory |
| | (cutting, shaping, | Structures | caught. | vocabulary. |
| | attaching, joining) | Ch will know how to make | Ch know and use relevant | Shanday, Duran at The article |
| | Chalandalana | freestanding structures stronger, | technical and sensory vocabulary | Shadow Puppet Theatre |
| | Ch to safely use | stiffer and more stable. | appropriately | Ch to create a simple circuit using batteries, wires, bulbs, |
| | and transport | Ch will know and use technical | Sandwiches and Packaging | switches. |
| | scissors. | vocabulary relevant to the | Ch to develop and use knowledge | Ch to use a glue gun to attach |
| | | project. | of nets of cubes and cuboids and, | products firmly |
| | | | where appropriate, more complex | Ch to use a hand drill to create a |
| | | | 3D shapes. Ch to develop and use knowledge | hole to firmly hold accessories in |
| | | | of how to construct strong, stiff shell | place. |
| | | | structures. | Ch will understand the health |
| | | | Ch will know and use technical | and safety rules when using glue |
| | | | vocabulary relevant to the project. | guns, Stanley knives (A glue gun is |
| | | | Ch to understand and apply the | hot with plastic parts which can |
| | | | principles of a healthy and varied | be touched) (A Stanley knife is |
| | | | diet. | share and needs to point down |
| | | | Ch to discuss and follow hygiene | onto a protective surface). |
| | | | and safety practises. | |
| | | | | |
| | | | Moving pictures | |



| | | | | • Inspiring greatness |
|----------|-----------------------|---|---|----------------------------------|
| | | | Ch to use the correct vocabulary | |
| | | | such as lever, slider, pivot, push, | |
| | | | pull, direction, up, down, left, right. | |
| | | | Ch will understand and use lever | |
| | | | and linkage mechanisms. | |
| | | | Ch will distinguish between fixed | |
| | | | and loose pivots. | |
| | | | Ch will know and use technical | |
| | | | vocabulary relevant to the project. | |
| Practise | Diwali | Tudor Houses | Christmas decoration (electric | Greek Food |
| | Children to explore | Ch will use lift-the-flap books to | components) | Ch will practise how to measure |
| | manipulating | understand how hinges work. | Ch to discuss what a prototype is | out, cut, shape and combine |
| | playdough using | Ch have a go at making their | and why they are used in design. | ingredients. |
| | fine motor skills and | own hinges out of paper | Ch to create prototype to ensure | Ch wll practice how to use |
| | relevant tools to | Ch will practise measure, mark, | their product will stand. | appropriate utensils and |
| | shape and effect | cut and fold techniques on a | Ch to experiment with how to | equipment that the children may |
| | changes to the | range of materials | change the colour of the lights. | use safely and hygienically. |
| | malleable material | | Ch to practise attaching bulbs to | Ch will consider appearance of |
| | in preparation for | Fruit salad | structures. | products, discussing which |
| | clay. | Ch will practice cutting fruits to | | shape/presentation is most |
| | | an appropriate size using skills to | Italian cuisine | appealing and why? |
| | Fairy tales | avoid cutting them too small. | | |
| | Ch to explore the | Ch use skills to ensure fingers are | Sandwiches and Packaging | Shadow Puppet Theatre |
| | textures, | out of the way of the knives | Ch to develop prototypes. | Ch will create a prototype to |
| | | - | Ch to create nets. | |
| | movement, feel | when chopping, slicing. | | help understand the movement |
| | and look of | | Ch to select from and use a range | of shadow puppets and to see |
| | different media | Structures | of tools and equipment to perform | how movement, colour and size |
| | and materials. | Ch will fold paper or card in | practical tasks [cutting, shaping, | can be manipulated. |
| | | different ways to make | joining] accurately. | Ch will experiment with size and |
| | | freestanding structures, using | Ch to select from and use | colour on the prototype screen. |
| | | masking tape where necessary | components from construction | Ch to draw diagram of their |
| | | to make joins. | materials according to their | puppet prototype and annotate |
| | | Ch will explore folding materials | functional properties. | how they adapted it |
| | | and how it can make them | Ch to apply their understanding of | Ch will evaluate how they found |
| | | stronger, stiffer, stand up and be | | changing the size of the puppet |
| | | more stable e.g. Can they | how to strengthen, stiffen and | as well as the colour they have |
| | | support an object on top of their | reinforce more complex structures. | added. What they found went |
| | | structures without it falling over | Ch to investigate how to make | well? What they found difficult? |
| | | or breaking? | structures more stable. | |
| | | Ch will practice measuring, | | |
| | | marking out, cutting, shaping, joining and finishing techniques | Moving pictures | |



| | | | | Inspiring greatness |
|----------------------------|--|--|--|---|
| | | with a range of tools and new and reclaimed materials that children are likely to use to make their structures. Ch will discuss the suitability of materials for their products according to their characteristics. Ch to build and explore a variety of freestanding structures using construction kits, such as wooden blocks, interconnecting plastic bricks and those that make frameworks e.g. How can you stop your structures from falling over? How they can be made stronger and stiffer in order to carry a load? Children could make models of the structures they have seen in school and the local area. | Ch to make and assemble a prototype slider, lever and wheel mechanism. | |
| Generate Ideas & Design | Fairy Tales Ch will construct with a purpose in mind using a variety of resources. Superheroes Ch will construct with a purpose in mind using a variety of resources. | Fruit salad Ch will plan a fruit snack – a fruit kebab or a fruit salad in a bowl. Ch will draw their design and label it. Structures CH will generate ideas based on simple design criteria and their own experiences, explaining what they could make. Ch will develop, model and communicate their ideas through talking, mock-ups and drawings. | Christmas decoration (electric components) Ch to use their prototype to inform their design. Ch to create an annotated design individually. Ch to identify materials needed to create their final product. Italian cuisine Ch to generate and clarify ideas through discussion with peers and adults to develop design criteria including appearance, taste, texture and aroma for an appealing product for a particular user and purpose. Ch will use annotated sketches and appropriate information and communication technology, such as web-based recipes, to develop and communicate ideas. | WWII Planes Ch will choose a plane and create a design for a model making adaptions for different features. Greek Food Ch will generate innovative ideas through research and discussion with peers and adults to develop a design brief and criteria for a design specification. Ch will explore a range of initial ideas, and make design decisions to develop a final product linked to user and purpose. Ch will use words, annotated sketches and information and communication technology as appropriate to develop and communicate ideas. |



| | | | Sandwiches and Packaging | Ch will develop a design brief |
|-----------|------------------------|---------------------------------|------------------------------------|--------------------------------------|
| | | | Ch to plan a sequence of actions | and simple design specification |
| | | | to make product. | with the children within a context |
| | | | | that is authentic and meaningful |
| | | | Ch to generate annotated plans | including design criteria relating |
| | | | and sketches; CAD where | to nutrition and healthy eating. |
| | | | appropriate. | |
| | | | Ch to evaluate and refine product. | Shadow Puppet Theatre |
| | | | Ch to improve on existing designs, | Ch will create a design and |
| | | | giving reasons for choices. | record the materials they will |
| | | | Moving pictures | need. |
| | | | Ch will design purposeful, | Ch in groups to complete the |
| | | | functional and appealing products | Task Management Sheet. |
| | | | for themselves and other users | Ch will note down the shadow |
| | | | based on design criteria in the | puppets, props and backgrounds |
| | | | context of designing an appealing | they will include (This can be like |
| | | | moving picture. | a check-list to ensure all items |
| | | | Ch will generate, develop, model | have been created). |
| | | | and communicate their ideas | Ch will discuss their design and |
| | | | through talking and drawing an | use prototypes to aid their design. |
| | | | annotated sketch to show their | Ch will work together to distribute |
| | | | ideas about a moving picture. | the tasks equally. |
| | | | | Ch will use feedback from peers |
| | | | | to develop their design and product. |
| | | | | Ch will create a final design of a |
| | | | | theatre with annotation of |
| | | | | measurements (exploded |
| | | | | diagram). |
| Develop & | Diwali | Tudor Houses | Christmas decoration (electric | WWII Planes |
| Make | Ch to explore, use | Ch will use cardboard boxes | components) | Ch will construct a model by |
| | and refine a variety | and other materials to create a | Ch to use prototypes to aid the | manipulating materials. |
| | of artistic effects to | 3D version of their design. | creation of the stand. | Ch adapt a design using chosen |
| | express their ideas | Ch will include a hinge for a | Ch to adapt the stand to make it | materials. |
| | and feelings. (Clay | door / window | more aesthetically pleasing. | Ch will use a material to build |
| | techniques) | | Ch to construct their template | layers. |
| | | Fruit salad | using prototype and design. | Ch will use a material to develop |
| | Fairy Tales | Ch to create their kebab/salad | Ch to add stand, electricity | and reinforce a net structure. |
| | Ch to respond to a | following their plan. | element. | |
| | | | | |
| | range of media | Ch to follow good hygiene | | Crock Food |
| | | | Italian cuisine | Greek Food |



| | | | · · · · · · · · · · · · · · · · · · · |
|---|---|---|---|
| and create effects with these. Ch will use different media and materials to express their own ideas. (junk modelling materials) Superheroes | Structures Ch will plan by suggesting what to do next. Ch will select and use tools, skills and techniques, explaining their choices. Ch select new and reclaimed materials and construction kits to build their structures. Ch will use simple finishing techniques suitable for the structure they are creating. | Ch to plan the main stages of a recipe, listing ingredients, utensils and equipment. Ch to select and use appropriate utensils and equipment to prepare and combine ingredients. Ch to select from a range of ingredients to make appropriate food products, thinking about sensory characteristics. Sandwiches and Packaging Ch to cut accurately and safely using correct tools. Ch will measure and mark out accurately. Ch will cut slots and internal shapes. Ch to measure and mark out to nearest mm. Ch to improve on existing designs, giving reasons for choices. Moving pictures Ch will use mechanisms to make a product. Ch to explore and use mechanisms (for example, levers, sliders, wheels and axles) in the product of making a moving picture. Ch to select from and use appropriate tools with some accuracy to cut, shape and join paper and card. Ch to select from and use finishing techniques suitable for the product they are creating. | Ch will write a step-by-step recipe, including a list of ingredients, equipment and utensils. Ch will select and use appropriate utensils and equipment accurately to measure and combine appropriate ingredients. Ch will make, decorate and present the food product appropriately for the intended user and purpose. Shadow Puppet Theatre Ch will create a stage, light circuit and puppets inline with their design. Ch will use previously learnt techniques to attach and fix using Stanley knives, hot glue guns and hand drill. Ch will adapt their designs and products throughout when encountering difficulties. Children will use the hot glue gun and Stanley knives. |



| Evaluate | Diwali | Tudor Houses | Christmas decoration (electric | WWII Planes |
|----------|----------------------|-------------------------------------|---|---|
| | Ch will refine their | Ch will use a walking gallery to | components) | Ch will use images from the |
| | product through | view each other's products. | Ch to evaluate throughout the | design, develop and make |
| | painting and | Ch will say what they liked about | project. | stages to complete an |
| | adding | their own work and what they | Ch to evaluate and analyse | evaluation of their product. |
| | embellishments. | might improve. | current products. | |
| | | | Ch to evaluate their prototype, | |
| | Fairy Tales | Fruit salad | annotated design, design | Greek Food |
| | Ch to select | Ch will identify which fruits they | template and final product. | Ch will evaluate the work as it |
| | appropriate | like and those which they don't | Ch will use a walking gallery to | progresses and the final product |
| | resources for a | like. | evaluate their own product and | against the intended purpose |
| | product and | Ch will explain why they | those of their peers. | and user reflecting on the design |
| | adapt their work | like/dislike them. | Ch will evaluate two products | specification previously agreed. |
| | where necessary. | Ch will discuss how they might | together and decide which one | Ch will carry out sensory |
| | C | improve their product. | would be the most effective as a | evaluations of a range of |
| | Superheroes | Structures | final product. | relevant products and |
| | | Ch will Explore a range of | Ch to decide what went well and | ingredients. Record the |
| | | existing freestanding structures in | what could be better next time. Ch to be critical of my own work | evaluations using e.g. |
| | | the school and local | when evaluating. | tables/graphs/charts such as star diagrams. |
| | | environment e.g. everyday | when evaluating. | Ch will evaluate the final product |
| | | products and buildings. | Italian cuisine | with reference back to the |
| | | Ch will evaluate their product by | Ch to carry out sensory evaluations | design brief and design |
| | | discussing how well it works in | of a variety of ingredients and | specification, taking into account |
| | | relation to the purpose, the user | products. Record the evaluations | the views of others when |
| | | and whether it meets the | using e.g. tables and simple | identifying improvements. Ch will |
| | | original design criteria. | graphs. | look at how key chefs have |
| | | | Ch will evaluate the ongoing work | influenced eating habits to |
| | | | and the final product with | promote varied and healthy |
| | | | reference to the design criteria | diets. |
| | | | and the views of others. | |
| | | | | Shadow Puppet Theatre |
| | | | Sandwiches and Packaging | Ch will evaluate the process |
| | | | Ch to be able to evaluate their | throughout and will ensure |
| | | | ideas and products against their | problems are overcome at each |
| | | | own design criteria and consider | stage. |
| | | | the views of others to improve their | Ch to be critical friends |
| | | | work. | throughout the process. |
| | | | Ch to evaluate and refine product. | Ch to draw diagram of their puppet prototype and annotate |
| | | | Ch to improve on existing designs, | how they adapted it |
| | | | giving reasons for choices. | |
| | | | grang reasons for choices. | |



| | | Ch will evaluate how they found |
|--|-------------------------------------|-----------------------------------|
| | Moving pictures | changing the size of the puppet |
| | Ch to evaluate their own products | as well as the colour they have |
| | and ideas against criteria and user | added. What they found went |
| | needs, as they design and make. | well? What they found difficult? |
| | | Ch to video their performances |
| | | to aid evaluations. |
| | | Ch to create a PPT to evaluate |
| | | the process (Must include |
| | | contents page, hyperlinks, photos |
| | | and sound clips. |

- Appraising & Analyse Children will appraise and analyse good examples of modern-day products and designs linked to their project.
- Technical Knowledge Children will analyse the knowledge and skills needed from modern day products and designs to gain an understanding of the project's requirements.
- Practise Children will use their knowledge of the skills to practise their newly taught skills to create a prototype.
- Generate Ideas & Design Children will generate ideas and design their project outcome based on a brief.
- Develop and Make Children will develop and make their project outcome following their project design. They will have opportunities to further develop their designs at this point if they need to.
- Evaluate Children will evaluate their product with reference to their original design and a design brief.