



## DT Long Term Curriculum Plan

| Design and Technology at a Glance at Eastfield Primary School |                                     |                        |  |                                  |   |  |
|---|-------------------------------------|------------------------|--|----------------------------------|---|--|
|   | Autumn 1                            | Autumn 2               | Spring 1   | Spring 2                         | Summer 1  | Summer 2   |
| EYFS  | Materials / Construction<br>joining |                        | Materials / Construction<br>Joining, constructing, balancing |                                  | Materials / Construction<br>Designing, joining, constructing, balancing |  |
| Year<br>1   |                                     |                        |  | Textiles                         |   | Materials /<br>Construction<br>(Cardboard)                       |
| Year<br>2   |                                     | Mechanisms –<br>Levers |  | Food                             |   | Materials /<br>Construction<br>(Wood)                            |
| Year<br>3   |                                     | Food                   |  | Materials/Construction<br>(clay) |   |  |
| Year<br>4   | Textiles                            |                        |  | Electrics/Computing              |   | Mechanisms - Pulleys   |
| Year<br>5   |                                     |                        | Food   |                                  |   | Mechanisms –<br>Converting rotary<br>linear motion using<br>CAMS |
| Year<br>6   |                                     | Textiles               |  |                                  | Electrics/Computing   |  |





| Design Technology at Eastfield Primary School |   |        |        |  |
|---|---|--------|--------|--|
|   | Autumn  | Spring | Summer |  |
| EYFS  | AutumnSpringSummerThe children will have a range of opportunities to explore each objective with a range of materials to construct with<br>throughout the continuous provision, in the natural environment and through expressive art and design activities both adult-<br>led and child initiated. They will be encouraged to think about and discuss what they want to make, discuss problems and how<br>they might be solved as they arise, and staff will reflect with children on how they have achieved their aims. The children will<br>be provided with a range of both natural and man-made materials and tools and the children will be taught to use them with<br>care and precision e.g. Arts and crafts: pencils, felt tips, paint brush, sponges, printing blocks, erasers, glue, spatula, tape<br>Cooking: wooden spoons, spatula, peeler, rolling pin.<br>The children will be taught different techniques for joining materials, such as how to use adhesive tape, different sorts of glue<br>and fastenings e.g. split pins and paper clips. The children will be asked to define colours, shapes, texture and smells in their<br>own words.Materials / Construction<br>The children will make their ownMaterials / Construction<br>The children will build a house for the |        |        |  |





| Year 1<br>DT |  | Spring 2<br>Textiles: Design, make and evaluate a toy<br>hand puppet.<br>Topic focus – History/Old and New Toys<br>The children will make a very simple<br>puppet using felt material and embellish<br>its features using other materials. They will<br>use a simple stitch to fasten the front and<br>back of the puppet and create a 3D<br>product using stuffing. | Summer 2<br>Materials/Construction: Design, build<br>and evaluate a functional structure<br>(money box) for other users, using card.<br>The children will design and make<br>freestanding structures. The structures<br>will be 3D and used to store small objects.<br>The project will focus on measuring,<br>marking out, cutting and joining<br>techniques.    |
|--------------|--|--|---|
| Year 2<br>DT | Autumn 2<br>Mechanics: Design, make and<br>evaluate a card using a lever to<br>move an object.<br>The children will look at sliders and<br>levers. They will investigate how<br>they have been made and then<br>make their own examples of<br>different sliders and levers. They will<br>use this knowledge to make a sliding<br>or levered picture move on a<br>Christmas card. | Spring 1<br>Food: Design, make and evaluate a<br>Healthy Sandwich<br>The children will look at healthy eating and<br>a range of salad ingredients and healthy<br>sandwich fillings. They will then design and<br>make their own healthy sandwich using a<br>choice of ingredients.   | Summer 2<br>Structures/Construction: Design, make<br>and evaluate a picture frame using wood<br>and strengthening corners<br>The children will design and make a<br>picture frame structure from wooden<br>materials. They will concentrate on using<br>the best cutting, joining and decorative<br>techniques for wooden materials (sawing,<br>gluing, drilling) |





| Year 3<br>DT | Autumn 2<br>Food and nutrition: Design, Make<br>and Evaluate a Healthy Salad using<br>seasonal produce<br>Knowledge also required to enhance<br>understanding: Science – Nutrition<br>The children will look at healthy<br>eating and what a balanced diet<br>means. They will learn about food<br>safety and the need for good<br>hygiene. The skills they will use to<br>prepare the salad will be slicing,<br>grating, chopping and peeling. | Spring 2<br>Materials/construction: Design, make<br>evaluate a clay pot<br>Topic focus – History/ Stone-Age Brita<br>The children will experiment with 2<br>different techniques to make a Stone-/<br>replica of a clay pot. They will experim<br>with both the thumb pressing techniq<br>and the coiling technique. Pupils will<br>create their final design using the coiling<br>technique. Pupils will use equipment to<br>make marks and patterns to decorate<br>pot.    | nin<br>Age<br>ent<br>ue<br>ng<br>o   |  |
|--------------|---|--|--|--|
| Year 4<br>DT | Autumn 1<br>Textiles: Design, make and evaluate<br>a bag using cross-stitch to write<br>initials (Enterprise)<br>The children will make a very simple<br>bag using felt material. They will<br>build on sewing skills taught in year<br>1 and use several stitch techniques<br>to join the bag together and attach a<br>handle. They will learn to use cross-<br>stitch to sew their initial to decorate<br>the bag.                            | Spring 2<br>Electrics/computing: Design, make<br>and evaluate a revolving fairground<br>ride using electrics and computing<br>components<br>Knowledge also required to enhance<br>understanding: Science – Electricity<br>Pupil will create simple circuits and<br>switches (including programming<br>and control. The children will<br>investigate how to make simple<br>circuits. They will then design, make<br>and evaluate a fairground ride using<br>these components. | Summer 2<br>Mechanisms: Design, make and evaluate a<br>mechanism for lifting objects using a pulley<br>Knowledge also required to enhance understanding:<br>History (Ancient Egypt)<br>Understand how key events and individuals in<br>design and technology have helped shape the world<br>– Building the pyramids and other buildings in<br>Ancient Egyptian times.<br>PULLEYS – making a mechanism for lifting a heavy<br>object. The children will investigate a range of<br>mechanisms which use pulleys. They will then create<br>their own mechanism to lift an object. |  |





| Year 5<br>DT |   | Spring 1<br>Food: Create a savoury dish using<br>typically South-American<br>ingredients<br>Celebrating culture and seasonality.<br>The children will look at the history<br>of ingredients local to South America<br>and how they differ from products<br>grown here and why. They will then<br>design, making and evaluate their<br>own savory South-American themed<br>dish. | Summer 2<br>Mechanisms: Convert rotary motion to linear<br>using CAMS.<br>Knowledge also required to enhance<br>understanding: Science – Forces<br>Children learn what a cam and follower are.<br>They are asked to identify cams and followers<br>on mechanisms. Children also learn how rotary<br>motion is converted into linear motion in a<br>mechanical system. They will design their own<br>product using CAMS.  |
|--------------|---|---|--|
| Year 6<br>DT | Autumn 2<br>Textiles: Design, make and evaluate<br>stitched household craft products<br>Knowledge also required to enhance<br>understanding: History – WW2 and<br>the need for 'Make do and Mend'<br>Combing different shapes.<br>The children will look at a range of<br>simple fabric Christmas tree<br>decorations. They will then look at<br>how the decorations are made and<br>put together. With this knowledge<br>the children will then design, make<br>and evaluate their own/pairs tree<br>decoration. |   | Summer 1<br>Electrics/Computing: Design, make and<br>evaluate a moving chariot using electronic kits<br>Knowledge also required to enhance<br>understanding: Science – Electricity and y6<br>computer coding skills.<br>More complex switches and circuits (including<br>programming, monitoring and control) The<br>children will investigate, design and make an<br>electrical circuit using the Crumble kits which<br>will use a motor to create movement for their<br>Greek chariot. |