|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Eastcote Primary Academy - DT Progression Map |  |  |  |  |  |  |  |
|  | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Design | Develop ideas with support. <br> Talk about what they want to create. <br> Begin to use appropriate shapes to draw what they want to create. | Have their own ideas. <br> Have a clear purpose in mind. <br> Talk about what they want to create. <br> Share their ideas with others. <br> Use representational drawings to draw what they want to create. | Say what they are making and what its purpose is. <br> Draw a planned construction. <br> Make a prototype slider to test the efficiency of their moving parts. | Say what they are making and who the intended user is. <br> Annotate design sketches to show different parts. <br> Use a design criteria to develop their ideas. <br> Use templates to plan their ideas. | Explain how their design will appeal to intended users. <br> Create a design criteria and use this to inform ideas. <br> Annotate sketches referring to materials and reasons for their choices. | Gather information about the needs and wants of particular users. <br> Make decisions that take into account the availability of resources (limited). <br> Communicate ideas using annotated sketches. <br> Make a prototype using various stitch spacings to test their efficiency. | Gather information about the needs, wants, preferences and values of particular users. <br> Create and follow a design specification which they refer to throughout construction. <br> Communicate ideas using annotated sketches, cross sectional and exploded diagrams. <br> Make a prototype cam to test the efficiency of their moving parts | Conduct research using surveys, interviews, questionnaires and webbased resources. <br> Develop a simple design specification to guide their thinking (product research). <br> Use Google software to design and adapt their product. Adapting and testing out different ideas. |
| Make measuring | Explore materials, textures, tools and techniques. <br> With support, select from a range of materials to contruct with. <br> Use appropraite one handed tools with care. (eg. scissors, hole punch) <br> Use different techniques to join materials (eg. glue, masking tape) | Explore, use and refine a vareity of tools and techniques to express their ideas. <br> Independently select from a range of materials to construct with. <br> Use age appropriate tools with care and precision (eg. scissors and safety knives) <br> Use different techniques for joiningmaterials (eg. adhisive tape, different types of glue) <br> Create collaboratively, sharing ideas, resources and skills. | Measure by eye to cut pieces to fit. | Develop accuracy when measuring by eye to cut pieces to fit. | Use a ruler to mark components to size | Develop accuracy when making measurements. | Develop accuracy when making measurements. | Measure with a ruler and protractor, mark out and cut materials with increasing accuracy |
| Make Cutting and shaping |  |  | Know how to safely cut a slit in a piece of card pushing scissor blade into blu tac. | Develop cutting skills using thicker materials such as strong card. | Develop cutting skills using a wider range of materials such as felt. | Use a craft knife safely to cut out holes into card | Safely use a saw to cut dowling (wooden). Use a drill to create a channel in a piece of wood. | Safely use a saw to cut plywood. Use a drill to create a small channel in a piece of wood. |
| Make <br> Assemble and joining |  |  | Use glue and split pins to join components. | Explore joining a range of components using tape, string and plasticine. | Consider joining techniques that are most appropriate for increasing stability and strength. | Use a running stitch to join two pieces of fabric. | Safely use a hot glue gun to join components. | Use a range of different stitches to join fabric. |
| Make <br> Aesthetic |  |  | Create a moving picture incorporating a slider and lever which shows skill in colour mixing and mark making/spreading with paint. | Using paint and considering their initial design, complete a product which is appealing to the intended user | Considering their initial design, decide how to complete a product which is appealing to the intended user | Use a range of finishing techniques: fabric pens, stitching, etc, considering the intended user | Considering their initial design, independently complete a detailed product which is appealing to the intended user | Affix embellishments using a range of stitches. |




| Electrical systems |  |  |  |  |  | Electrical game <br> Learn about the history of electricity - research Benjamin Franklin, Thomas Edison <br> Devise a product which features a simple electrical circuit using one component (buzzer or bulb) |  | Electrical game <br> Devise a product which features a more complex electrical circuit with multiple components such as switches, bulbs or buzzers. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Computing |  |  |  |  | Lego <br> Develop understanding of Lego as a product. Knowing who designed Lego and why it is so successful: material, reusable, design, construction integrity. <br> Programme and control their product's movement (Lego race car) |  | Lego <br> Create a product. Programme and control their product's movement. Monitor and adapt their product to improve its output (Lego race car). |  |
| Textiles |  |  |  | finger puppets <br> Using a template, cut and join two shapes using glue. Affix sequins, buttons and ribbon with glue. |  | Purse, wallet or phone holder <br> Cut and join two shapes using a running stitch using Binca. |  | Christmas decoration <br> Cut and join two shapes and affix embellishments using a range of stitches. |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Cooking and Nutrition |  | Peelers - veg Mashed potato | Making sandwiches for Teddy bears picnic spreading, cutting, chopping | Healthy alternative to icecream Cutting fruits | Skill sessionchopping, slicing, grating and spreading (healthy pizza). | biscuits | bread-making | Meal |


| Structures | Boats <br> Rockets | playground equipment - <br> Making simple free-standing <br> structures |  | Snack box Shell structures |  | bridges |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mechanisms | Moving parts with construction kits (pivots) | moving pictures (levers and sliders) | moving vehicles (wheels and axles) | Moving monsters (pneumatics) |  | moving toys (cams) |  |
| Electrical systems |  |  |  |  | Electrical game simple circuit |  | Electrical game wooden frame construction with more complex circuits |
| Computing |  |  |  |  |  | Lego race car and challenge to adapt and improve output |  |
|  |  |  |  | Lego race car |  |  |  |
| Textiles |  |  | finger puppets Cutting templates, sticking and stitching embellishments |  | purse/wallet/phone holder running stitch with binca |  | Christmas decoration - range of stitches, leaving room for a seam, stitching a range of embelishments |

