Lower KS2 Design Technology

| Autumn A | Spring A | Summer A | Autumn B | Spring B | Summer B |
|---|---|---|---|---|---|
| Structures | Mechanisms | Cooking | Textiles | Digital World | Electronic Systems |
| 1. I can investigate and evaluate 3d shapes that create a castle structure.<br><br>2. I can develop and communicate my ideas through annotated sketches. (design)<br><br>3. I can create and join (using glue and tape) 3d shapes using a net. (make)<br><br>4. I can create a 3d model using the shapes and joining methods I have learnt. ( make)<br><br>5. I can evaluate my final product. | 1. I can investigate different leavers and linkages.<br><br>2. I can explore different ways to create a lever and linkage.<br><br>3. I can design a mechanical toy.<br><br>4. I can create a mechanical toy.<br><br>5. I can evaluate my mechanical toy. | 1. I can investigate what seasonal food is and understand that different food grows in different locations in the world.<br><br>2. I can explore the taste of different fruit and vegetables and create a flavour wheel .<br><br>3. I can explore different ways to cut and peel fruit and vegetables. ( claw grip, bridge cut,  peel, grate) I can explain which method is best for each food type.<br><br>4. I can design a seasonal wrap.<br><br>5. I can make a seasonal wrap.<br><br>6. I can evaluate my wrap. | 1. Look at cushions on the market and evaluate.<br><br>2. I can explore different stitches ( running stich recap, cross stitch.)<br><br>3. I can explore appliqué<br><br>4. I can design a cushion.<br><br>5. I can make a cushion.<br><br>6. I can evaluate my cushion. | 1. I can discuss the digital revolution and explore posters and adverts on the market currently.<br><br>2. I can explore programming objects to move and turn. ( Scratch)<br><br>3. I can plan my poster (possible link to another area of the curriculum)<br><br>4.I can make my digital poster.<br><br> 5. I can evaluate my poster. | 1.I can investigate night lights on the market.<br><br>2. I can understand the components in a circuit.<br><br>3. I can experiment with different materials to decide which is best for a lamp. (transparent, translucent, opaque)<br><br>4. I can design my night light.<br><br>5. I can make my nightlight.<br><br>6. I can evaluate my night light. |
| Children will have an understand of nets and 3D shapes. | Children will have made a mechanical toy using leavers and linkages. | Children will have created a seasonal wrap and have an understanding of | Children will have made a cushion using a running stitch. | Children will have an understanding of the Digital Revolution and made a digital poster. | Children will have an understanding of an electrical circuit and make an aesthetic lamp |
| structure, net, secure 3D<br><br>design, make, evaluate | lever, linkage, adapt, pivot, design criteria | Fruit, vegetable, seasonal, diet, flavour, bridge cut, claw grip, method | running stitch, appliqué, cross stitch, sew | Digital  Revolution, programme | switch, bulb, circuit, aesthetic, opaque, transparent, translucent. |