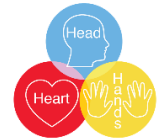




Year Three / Four

Spring

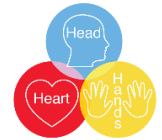
| Crucial Knowledge – Food (Spring)  | Expanded Knowledge   | Intent/Prove  |
|--|--|---|
| <p><i>Background CK - DT is short for design technology.</i></p> <ul style="list-style-type: none"> <li>- <i>DT is the process of designing and producing with technology to create a product.</i></li> <li>- <i>Food gives us nutrition.</i></li> <li>- <i>Cooking is the process of making a chemical change in raw ingredients.</i></li> </ul> <ul style="list-style-type: none"> <li>- To cook, you must follow hygiene rules, e.g. washing your hands, wearing an apron, tying your hair back.</li> <li>- A healthy diet provides all the essential nutrients, vitamins, minerals and more that the body needs to work.</li> <li>- A varied diet is balanced and made up of the 5 main food groups.</li> <li>- The 5 main food groups are carbohydrates, fruit and veg, protein, fats and dairy.</li> <li>- Fruits and vegetables are seasonal.</li> <li>- Meat is reared on farm before being processed in to food.</li> </ul> | <ul style="list-style-type: none"> <li>- Apply the principals of a varied diet to their food.</li> <li>- Decide the most appropriate method to cook food.</li> <li>- Choose appropriate equipment to cook food.</li> </ul> | <ul style="list-style-type: none"> <li>- Design, cook and evaluate a European dish through researching/planning/designing, building/creating and evaluating.</li> </ul> |



|   |  |  |
|---|--|--|
| <ul style="list-style-type: none"><li>- Food can be cooked in different ways, e.g. baked, fried, toasted.</li></ul> |  |  |
|---|--|--|

## Summer

| Crucial Knowledge – Structures (Summer)  | Expanded Knowledge  | Intent/Prove   |
|--|---|--|
| <p><i>Background CK - DT is short for design technology.</i></p> <ul style="list-style-type: none"><li>- <i>DT is the process of designing and producing with technology to create a product.</i></li><li>- <i>Structures is something built in a definite way.</i></li></ul> <p>- Before creating a product, designers need to research and plan their design.</p> <p>- Structures can be reinforced (made stronger) by using different shapes, strong foundations and by not laying bricks directly on top of each other.</p> <p>- Understand how to join, cut, shape and finish a product.</p> <p>- Can select appropriate materials and equipment to construct their structure.</p> <p>- Structures are both functional and aesthetically pleasing.</p> <p>- Designs need to be evaluated in order to find strengths and weakness to improve future designs.</p> | <ul style="list-style-type: none"><li>- Understand that key events impact upon design.</li><li>- Understand that key designers impact design.</li></ul> | <ul style="list-style-type: none"><li>- Create European landmark structure using appropriate materials through researching/planning/designing, building/creating and evaluating.</li></ul> |



| Crucial Knowledge – Pneumatics (Summer)   | Expanded Knowledge   | Intent/Prove  |
|---|--|---|
| <p><i>Background CK - DT is short for design technology.</i></p> <p><i>- DT is the process of designing and producing with technology to create a product.</i></p> <p>- Pneumatics is something that contains or is operated by pressurised air or gas.</p> <p>- Children can list some real world examples of pneumatics.</p> <p>- The bigger the object, the more pressure it would need.</p> <p>- Can select appropriate materials and equipment to construct their pneumatic.</p> <p>- Pneumatics are functional and usually hidden.</p> <p>- Designs need to be evaluated in order to find strengths and weakness to improve future designs.</p> | <p>- Children can list several real life examples of pneumatics.</p> <p>- Children can explain the dangers of pneumatics.</p> <p>- Pneumatics have been used since Ancient Greece.</p> | <p>- Create their own pneumatic through researching/planning/designing, building/creating and evaluating.</p> |