|  |
| --- |
| **Cycle A – Design and Technology Long term planning** |
|  | **Autumn 1**  | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1**  | **Summer 2** |
| **EYFS** | Using construction kits to build for a purpose. | Chopping, peeling and cooking vegetables for Harvest vegetable soupWreath making  | Design nests using different materials to consider the features of nests (RSPB)Exploring different materials to make a train. | Bake Easter cakesMinibeast clay models, Weaving making spider websMaking life cycle wheels using split pin | Making puppets to act out written stories.Making sandwiches for Coronation Picnic/Tea party | Junk modelling (create your own rocket, telescope etc). |
| **Y1/2** | **Year 1 Block A**Mechanism- sliders and levers. *How can you make a picture move?* | **Year 1 Block B**Structures Freestanding Structure. *How can you stop a tower from falling?* | **Year 1 Block C**Food and Nutrition- exploring senses. *How does food affect your senses?* | **Year 1 Block D**Understanding materials Selecting materials. *Can you build with bread?* | **Year 1 Block E**Joining textiles *How can two squares of fabric keep you warm?* | **Year 1 Block F**Vitamins in food *Why are vegetables the best?* |
| **Y3/4** | **Year 3 Block A**TextilesStiffening and strengthening fabric*How can you make a box out of cloth?* | **Year 3 Block B**Food and NutritionIndividual diets*What do we mean by a balanced diet?* | **Year 3 Block C**Mechanisms levers and linkages- mechanical advantage *How can you work with little effort?* | **Year 3 Block D**Food and nutrition Food as medicine *How does food affect body and mind?* | **Year 3 Block E**Systems How things are powered *How are things powered?* | **Year 3 Block F**Structures spanning gaps *What makes a bridge strong?* |
| **Y5/6** | **Year 5 Block A**Food and NutritionFood choices *Why are diets so different?* | **Year 5 Block B**Systems using technology to design and control *How can we keep ourselves safe on the road?* | **Year 5 Block C**TextilesDurability of fabric *Which fabric is ideal for creating a functional and hardwearing lunchbag?* | **Year 5 Block D**Mechanisms Pulleys and gears – transferring rotational force *How can you lift a car onto a roof?* | **Year 5 Block E****Structures** Developing structures that are fit for a purpose *How are frames strengthened, reinforced and made rigid?* | **Year 5 Block F**Food and nutrition Cultural influences on diet *What can we learn from different cultures’ diets?* |

|  |
| --- |
| **Cycle B – Design Technology Long term planning** |
|  | **Autumn 1**  | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1**  | **Summer 2** |
| **EYFS** | To Be decided in relation to children’s interests and topics planned  |  |  |  |  |  |
| **Y1/2** | **Year 2 Block A**Textiles Exploring shapes using a template *How can you repurpose an item of clothing?* | **Year 2 Block B**Food and Nutrition Nutrients and the body *What does healthy mean?* | **Year 2 Block C**Mechanisms Axels and wheels *Are bigger wheels always better?* | **Year 2 Block D**Understanding materials manipulating materials *How can you make a waterproof hat?* | **Year 2 Block E**Food and nutrition Processed food *How healthy is your food?* | **Year 2 Block F**Developing strength in structure *How strong is a piece of paper?* |
| **Y3/4** | **Year 4 Block A**Food and nutrition Ultra-processed food *What is really in your food?* | **Year 4 Block B**Mechanisms Hinges *How many ways are there to open a door?* | **Year 4 Block C**Textiles Fixing and fastenings *How do you keep a tea towel from slipping off a hook?* | **Year 4 Block D**Structures Designing structures using a frame to make them stronger and sturdier *Which shapes will give a structure stability?* | **Year 4 Block E**Electrical systems Switches and circuits revisited *How useful are switches?* | **Year 4 Block F**Food and nutrition Benefits of fresh food *Is cheap food always worse for you?* |
| **Y5/6** | **Year 6 Block A****F**ood and nutrition Multicultural influences on food *Can street foods save us?* | **Year 6 Block B**Mechanisms Pulleys and gears- rotary and linear movement *How do pulleys and gears let you see the world?* | **Year 6 Block C**Food and nutrition Food and mood *Does food affect the way you feel?* | **Year 6 Block D**Structures designing structures revisited – combining skills and knowledge *How strong is a piece of spaghetti?* | **Year 6 Block E**Electrical systems Complex switches and circuits *Can switches perform more than one function?* | **Year 6 Block F**Textiles sustainable materials *How can you reduce, recycle and repurpose?* |