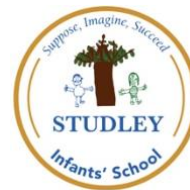


# Design Technology Overview



## Cycle A

|                               | Autumn         |                                                                                                                                                                                                                                                                             | Spring                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Summer                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic                         | Incredible Me! | Crazy Castles                                                                                                                                                                                                                                                               | To Infinity...and beyond |                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Land Ahoy!                                                                                                                                                                                                                                                                                                                                                                                         | Animal Antics                                                                                                                                                                                                                                                                                                                                                  |
| DT                            |                | Textiles: Christmas Puppets                                                                                                                                                                                                                                                 |                          | Mechanisms: Vehicles to travel around the UK                                                                                                                                                                                                                                                                                                                                                                                                                  | Structures: Design a chair                                                                                                                                                                                                                                                                                                                                                                         | Food and nutrient: smoothies                                                                                                                                                                                                                                                                                                                                   |
| Sticky Knowledge/ Key concept |                | <ul style="list-style-type: none"> <li>-To join fabrics together using pins, staples or glue (Y1).</li> <li>-To use a running stitch to join fabrics (Y2).</li> <li>-To design using a template.</li> <li>-To make and decorate a puppet following their design.</li> </ul> |                          | <ul style="list-style-type: none"> <li>-To explain that wheels move because they are attached to an axle.</li> <li>-To recognise that wheels and axles are used in everyday life.</li> <li>-To identify and explain vehicle design flaws using the correct vocabulary.</li> <li>-To design and make a vehicle that includes functioning wheels, axles and axle holders.</li> <li>-To explain what must be changed if there are operational issues.</li> </ul> | <ul style="list-style-type: none"> <li>-To identify man-made and natural structures.</li> <li>-To identify stable and unstable structural shapes.</li> <li>-To identify features that make a chair stable.</li> <li>-To make a stable structure following a demonstration.</li> <li>-To produce a model that supports a teddy, using appropriate materials and construction techniques.</li> </ul> | <ul style="list-style-type: none"> <li>-To identify fruits and vegetables and explain how to identify fruits.</li> <li>-To name a range of places that fruits and vegetables grow.</li> <li>-To describe basic characteristics of fruit and vegetables.</li> <li>-To prepare fruits and vegetables to make a smoothie (washing; peeling; chopping).</li> </ul> |

## Cycle B

|                               | Autumn            |                                                                                                                                                                                                                                                                             | Spring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | Summer                                                                                                                                                                                                                                                                                                                                                       |                  |
|-------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Topic                         | Magical Memories! | Once upon a Journey                                                                                                                                                                                                                                                         | A Twist in the Tale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Our Roarsome Work!                                                                                                                                                                                                                                                                                                                                           | The Potting Shed |
| DT                            |                   | Textiles: Christmas Stockings                                                                                                                                                                                                                                               | Mechanisms: Moving Animal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Food (fairtrade): Healthy Wraps                                                                                                                                                                                                                                                                                                                              |                  |
| Sticky Knowledge/ Key concept |                   | <ul style="list-style-type: none"> <li>-To join fabrics together using pins, staples or glue (Y1).</li> <li>-To use a running stitch to join fabrics (Y2).</li> <li>-To design using a template.</li> <li>-To make and decorate a puppet following their design.</li> </ul> | <ul style="list-style-type: none"> <li>-To know the correct terms for levers, linkages and pivots.</li> <li>-To analyse popular toys using the correct terminology.</li> <li>-To create functional linkages that produce the desired input and output motions.</li> <li>-To create an animal which satisfies most of the design criteria.</li> <li>-To evaluate their two designs against the design criteria, using the information and feedback from peers to choose the best.</li> <li>-To select and assemble materials to create their planned animal.</li> </ul> |  | <ul style="list-style-type: none"> <li>-To name the main food groups and identify foods that belong to each group.</li> <li>-To describe the taste, feel and smell of a given food.</li> <li>-To think of three different wrap ideas, considering flavour combinations.</li> <li>-To construct a wrap that meets the design brief and their plan.</li> </ul> |                  |