

DT Long Term Plan

	Autumn 1	Autumn 2		Spring 1			Spring 2	Summer 1	Summer 2	
Y1	COSMIC MECHANISMS Sliders and Levers  (2 sessions) A	COSMIC TEXTILES Templates and Joining Techniques (1 lesson)	COSMIC FOOD Preparing Food and Nutrition (1 lesson)	COSMIC TEXTILES Templates and Joining Techniques (1 lesson)	COSMIC MECHANISMS Sliders and Levers  (2 sessions) A	COSMIC MECHANISMS Sliders and Levers  (2 sessions) A	STRUCTURES Freestanding  (2 sessions)	STRUCTURES Freestanding  (2 sessions)	COSMIC FOOD Preparing Food and Nutrition (1 lesson)	STRUCTURES Freestanding  (2 sessions)
Y2	COSMIC MECHANISMS Wheels and Axles  (2 sessions) B	COSMIC TEXTILES Templates and Joining Techniques (1 lesson)	COSMIC FOOD Preparing Food and Nutrition (1 lesson)	COSMIC TEXTILES Templates and Joining Techniques (1 lesson)	COSMIC MECHANISMS Wheels and Axles  (2 sessions) B	COSMIC MECHANISMS Wheels and Axles  (2 sessions) B	FOOD Preparing Food and Nutrition  (2 sessions)	FOOD Preparing Food and Nutrition  (2 sessions)	COSMIC FOOD Preparing Food and Nutrition (1 lesson)	FOOD Preparing Food and Nutrition  (2 sessions)
Y3	COSMIC STRUCTURES Shell Structures  (2 sessions) A	COSMIC TEXTILES 2-D and 3-D (1 lesson)	COSMIC FOOD Preparing Food and Varied Diets (1 lesson)	COSMIC TEXTILES 2-D and 3-D (1 lesson)	COSMIC STRUCTURES Shell Structures  (2 sessions) A	COSMIC STRUCTURES Shell Structures  (2 sessions) A	ELECTRICAL SYSTEMS Simple Circuits and Switches  (2 sessions)	ELECTRICAL SYSTEMS Simple Circuits and Switches  (2 sessions)	COSMIC FOOD Preparing Food and Varied Diets (1 lesson)	ELECTRICAL SYSTEMS Simple Circuits and Switches  (2 sessions)
Y4	COSMIC MECHANICAL SYSTEMS Levers and Linkage  (2 sessions) B	COSMIC TEXTILES 2-D and 3-D (1 lesson)	COSMIC FOOD Preparing Food and Varied Diets (1 lesson)	COSMIC TEXTILES 2-D and 3-D (1 lesson)	COSMIC MECHANICAL SYSTEMS Levers and Linkage  (2 sessions) B	COSMIC MECHANICAL SYSTEMS Levers and Linkage  (2 sessions) B	FOOD Preparing Food and Varied Diets (2 sessions)	FOOD Preparing Food and Varied Diets (2 sessions)	COSMIC FOOD Preparing Food and Varied Diets (1 lesson)	FOOD Preparing Food and Varied Diets (2 sessions) (2 sessions)
Y5	COSMIC STRUCTURES Frame  (2 sessions) A	COSMIC TEXTILES Combining Fabrics / Computer Design (1 lesson)	COSMIC FOOD Celebrating Culture and Seasonality (1 lesson)	COSMIC TEXTILES Combining Fabrics / Computer Design (1 lesson)	COSMIC STRUCTURES Frame  (2 sessions) A	COSMIC STRUCTURES Frame  (2 sessions) A	ELECTRICAL SYSTEMS Complex Switches Circuits (programming)  (2 sessions)	ELECTRICAL SYSTEMS Complex Switches Circuits (programming)  (2 sessions)	COSMIC FOOD Celebrating Culture and Seasonality (1 lesson)	ELECTRICAL SYSTEMS Complex Switches Circuits (programming)  (2 sessions)
Y6	COSMIC MECHANICAL SYSTEMS Pulleys or Gears  (2 sessions) B	COSMIC TEXTILES Combining Fabrics / Computer Design 2-D and 3-D (1 lesson)	COSMIC FOOD Celebrating Culture and Seasonality (1 lesson)	COSMIC TEXTILES Combining Fabrics / Computer Design (1 lesson)	COSMIC MECHANICAL SYSTEMS Pulleys or Gears  (2 sessions) B	COSMIC MECHANICAL SYSTEMS Pulleys or Gears  (2 sessions) B	FOOD Celebrating Culture and Seasonality (2 sessions)	FOOD Celebrating Culture and Seasonality (2 sessions)	COSMIC FOOD Celebrating Culture and Seasonality (1 lesson)	FOOD Celebrating Culture and Seasonality (2 sessions)

**Assessment**

**Level 1**

**I can ...**

- Work with different materials.
- come up with ideas.
- explain what I want to do- *using words*
- explain what I want to do- *using pictures*
- explain what I am making.
- explain which tools I need to use
- use tools and materials safely
- talk about my own work.
- Talk about the work of other people
- talk about the work of other people

**Level 2**

**I can...**

- I can describe how things work
- Draw my own ideas
- Describe products I know about which are like my design.
- Draw, model and describe my ideas.
- Explain how and why I have chosen to make my design.
- Plan what to do next.
- Choose what tools I will need and explain my choice.
- Use tools and machines to put things together.
- Join/combine/mix materials.
- Say what I have done well and what I could do better.

**Level 3**

**I can...**

- Use my experience, and things I know about products to help me design.
- List things my design needs to do in a specification.
- Write a realistic plan for making.
- Explain my ideas clearly and in detail.
- Annotate my designs to explain details.
- Use sketches and models to show my ideas.
- Think ahead about how to make my design and in what order.
- Choose what tools/materials/techniques to use and use them with some accuracy.
- Cut, shape and put things together when making.
- Evaluate my design, and how well I worked, to say what I changed and improved as I went along.