Year 2	Autumn
	Autumn 1
	DT Focus
	Mechanisms
	Making a Moving Monster
	<u>Unit Objectives:</u>
	To look at objects and understand how they move
	To explore different design options
	To make a moving monster
	Design
	 I can understand that linkages use levers and pivots to create motion.
	I can think of two of my own points to add to the class design criteria.
	 I can draw two moving monster designs that meet all points of my design criteria.
	I can design the linkage I will use to make my monster move.
	National Curriculum Objectives:
	Design purposeful, functional appealing products for themselves and other users based on design criteria.
	Generate, develop, model, and communicate their ideas through talking, drawing, templates, mock-ups and, where
	appropriate, information and communication technology.
	Make
	I can make linkages by connecting levers and pivots.
	I can understand that materials can be selected according to their characteristics.
	I can design and make the features of my monster.

National Curriculum Objectives:

• Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.

Testing and Evaluation

• I can evaluate how functional my monster is and whether it meets the Design Criteria.

National Curriculum Objectives:

Evaluate their own ideas and products against design criteria.

Spring

Spring 1

DT Focus

Mechanisms

Fairground Wheel

Unit Objectives:

- To explore wheel mechanisms and design a Ferris wheel.
- To select appropriate materials
- To build and test a moving wheel
- To make and evaluate a structure with a rotating wheel

Design

- I can describe how axles help wheels to move a vehicle.
- I can evaluate different designs.
- I can design and label a working wheel.

National Curriculum Objectives:

• Generate, develop, model, and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.

Make

- I can build a stable structure.
- I can test elements of my design.
- I can adapt my design as necessary.
- I can make the wheel rotate.

Testing and Evaluation

- I can test elements of my design.
- I can evaluate a wheel mechanism and adapt it as necessary.

National Curriculum Objectives:

• Evaluate their own ideas and products against design criteria.

Summer

DT Focus Structures

Baby Bear's Chair

Termly Objectives:

- To explore the concept and features of structures and the stability of different shapes.
- To understand that the shape of the structure affects its strength.
- To make a structure according to design criteria.
- To produce a finished structure and evaluate its strength, stiffness and stability.

Design

- I can identify natural and man-made structures.
- I can understand what is meant by stability and identify when a structure is more or less stable than another.
- I can explain that shapes and structures with wide, flat bases or legs are the most stable.





Make

- I can remember that chairs are structures that need to be strong, stiff and stable.
- I can create joints and structures from paper, card and tape.

National Curriculum Objectives:

• Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.

Testing and Evaluation

- I can identify that the chair I design needs to be strong, stiff, stable and support Teddy.
- I can evaluate my structure according to the design criteria.

National Curriculum Objectives:

- Explore and evaluate a range of existing products.
- Evaluate their ideas and products against design criteria.