

DT Knowledge Organiser

Term 4 – Year 3/4

Focus; design and make a parachute

National Curriculum Objectives:

Design:

- Use research and develop design criteria to inform the design of a functional product that is fit for a select purpose, aimed at either individuals or groups
- Generate, develop, model and communicate their ideas through discussion, annotated sketches, diagrams and prototypes

Make:

- Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
- Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

Evaluate:

- Evaluate their ideas and products against their own design criteria and consider the view of others to improve their work
- Understand how key events and individuals in design and technology have helped shape the world

Technical knowledge:

- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.



Key vocabulary

Word	Meaning
Parachute	A piece of cloth which fills with air and allows a person or heavy object slowly and safely drop from a height
Protection	The action of protecting, or being protected
Properties	An quality or characteristic of something
Contraptions	A machine that look strange or unnecessarily complicated, and often badly made or unsafe
Prototypes	A first of many version of a machine from which other ideas are developed

Sticky Knowledge:

Gravity is an invisible force which pulls objects to the ground.

Air resistance is a force which pushes against gravity and can cause different objects to fall at different speeds.

Air resistance affects different materials differently.