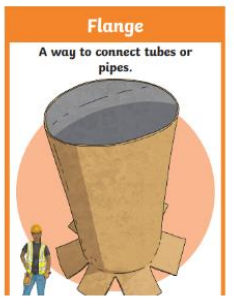



Design and Technology:

Yr1 Autumn term

Rockets (Materials and structures)

National Curriculum subject content:	
Design	<ul style="list-style-type: none"> ✓ design purposeful, functional, appealing products for themselves and other users based on design criteria
Make	<ul style="list-style-type: none"> ✓ select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] ✓ select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics
Evaluate	<ul style="list-style-type: none"> ✓ explore and evaluate a range of existing products ✓ evaluate their ideas and products against design criteria
Technical knowledge	<ul style="list-style-type: none"> ✓ build structures, exploring how they can be made stronger, stiffer and more stable
National Curriculum theme:	
	<ul style="list-style-type: none"> ✓ Design ✓ Make ✓ Evaluate ✓ Technical knowledge ✓ Materials and structures

Key Vocabulary:	
Material	The matter from which a thing is or can be made.
Design	A plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.
Make	Combining materials and techniques to create a product.
Evaluate	To consider the effectiveness of a product.
Design	A plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.
Join	To link or connect.
Flange	<p>A method to connect tubes or pipes.</p>  <p>The diagram shows a large, brown, conical structure resembling a rocket nozzle or a pipe joint. It has a wide, flat top surface and a narrower base. A small figure of a person in a hard hat and safety vest is standing next to the base for scale. The text above the diagram reads 'Flange' and 'A way to connect tubes or pipes.'</p>
Slot	<p>A method to connect flat pieces together.</p>  <p>The diagram shows several pieces of brown cardboard or paper. One piece is being held in place by a hammer, which is shown driving a nail into a slot cut into the cardboard. The text above the diagram reads 'Slot' and 'A way to connect flat pieces together.'</p>

Design and Technology:

Yr1 Autumn term

Rockets (Materials and structures)

Sequence of Learning:					
Objectives (key knowledge):					
To join materials together to make a structure.					
Objective 1: To know the key features of a rocket and develop design criteria.	Objective 2: To make a rocket prototype using construction materials.	Objective 3: To learn how to use and make a flange join.	Objective 4: To learn how to use and make a slot join.	Objective 5: To make a rocket using one or more of the joins we have learned.	Objective 6: To evaluate your rocket against design criteria.