

Y1/2 Year A Summer Term

Topic: Travel and Explore

Subject: DT – Vehicles and Moon Buggies

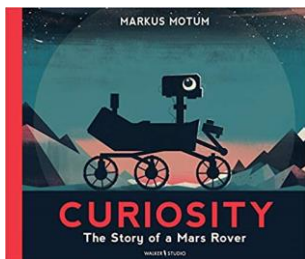
National Curriculum Objectives

- 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
- 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
- explore and evaluate a range of existing products
- evaluate their ideas and products against design criteria
- explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products

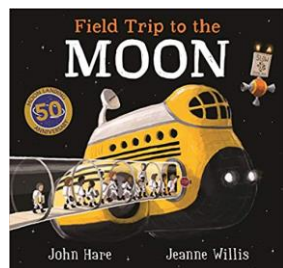
Links to our school values:

Respect
Courage
Thankfulness

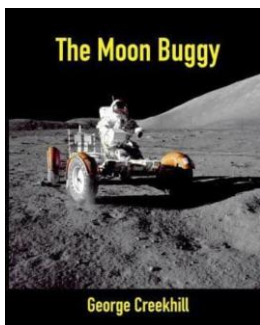
Texts to support learning



Curiosity:
The Story of a Mars Rover
Markus Motum



Field Trip to the Moon
John Hare



The Moon Buggy-George Creechill

Key Knowledge and Vocabulary

This unit will be linked to this term's History unit in which we will learn about Neil Armstrong. Once we have investigated a range of wheeled vehicles we will design and make lunar rovers (moon buggies)

Identify and name a variety of different types of **vehicles**

Identify the main features of a variety of vehicles

Identify the uses/purposes for a variety of vehicles

Know what **wheels**, **axles** and **chassis** are

Know that there are two different ways of **attaching** wheels to axles

Experiment with a range of materials and techniques to combine wheels, axles and chassis

Choose materials to use as the **body** of a vehicle/**lunar rover**

Identify different ways of combining materials to create the body of a vehicle/lunar rover

Identify different ways of decorating the body of a vehicle/lunar rover including ICT

Design a vehicle/lunar rover to include wheels, axles, chassis and bodies

Describe which materials and tools they will need to make their vehicles

Discuss their designs and say what they think and feel about them

Know how to follow a design to create a vehicle/lunar rover

Use a variety of materials and tools safely and effectively to create a vehicle/lunar rover
Identify ways in which they could improve their products and amend accordingly

Evaluate a finished product by identifying what they did well

Evaluate a finished product by identifying what could be improved

Identify ways in which they could improve their work with DT in the future