

**Y3/4 Year A Summer Term**  
**Topic: Let's Explore the USA**  
**Subject: Science – American Scientists**

**National Curriculum Objectives**

Y3/4

- setting up simple practical enquiries, comparative and fair tests
- asking relevant questions and using different types of scientific enquiries to answer them
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

Y3

- recognise that light from the sun can be dangerous and that there are ways to protect their eyes
- compare and group together different kinds of rocks on the basis of their appearance and simple physical properties
- describe in simple terms how fossils are formed when things that have lived are trapped within rock

Y4

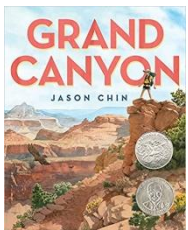
- identify how sounds are made, associating some of them with something vibrating
- recognise that sounds get fainter as the distance from the sound source increases.
- construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
- identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery
- recognise some common conductors and insulators, and associate metals with being good conductors.

**Links to School Values**

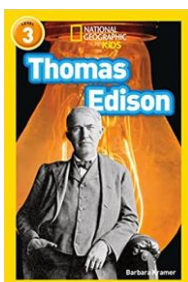
Respect

Thankfulness

**Texts to support learning:**



Grand Canyon – Jason Chin



Thomas Edison – Barbara Kramer

**Key Knowledge and Vocabulary**

Know where the **Grand Canyon** is.  
 Know and explain what **erosion** is.  
 Know that there are different types of **erosion**.  
 Describe a **hard rock** and a **soft rock**.

Know where the **Petrified Forest** is.  
 Know what a **palaeontologist** does.  
 Know and describe the process of **fossils** forming.  
 Name some different types of fossils

Know and name some of the different types of fossils found in the USA. Identify and group fossils according to their type. compare different fossils.

Know that light from the sun can be dangerous.  
 Describe how the sun can be harmful to our eyes or skin  
 Know how we can **protect** our skin and eyes from the sun.

Describe what a **complete circuit** is.  
 Know who **Thomas Edison** is and what he is famous for.

Know who **Benjamin Franklin** is and what he is famous for.  
 Define the words **electrical conductor** and **electrical insulator** and give examples.

Know and describe what happens to sound over greater distances.