

## **Topic name: Transport/ South America**

### **Forces and Magnets/ Earth and Space**

#### **Science**

##### **Taken from Year 5 N.C Forces**

Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object

Identify the effects of air resistance, water resistance and friction that act between moving surfaces

Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springs.

##### **Taken from Year 5 N.C Earth and space**

Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.

Describe the movement of the Moon relative to the Earth.

Describe the Sun, Earth and Moon as approximately spherical bodies.

Use the idea of the Earth's rotation to explain day and night.

##### **Taken from Year 3 N.C Forces and Magnets**

Notice that some forces need contact between two objects, but magnetic forces can act at a distance.

Observe how magnets attract or repel each other and attract some materials and not others.

Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.

Describe magnets as having two poles.

Predict whether two magnets will attract or repel each other, depending on which poles are facing.

#### **History**

The achievements of the earliest civilizations - an overview of where and when the first civilizations appeared and a depth study of one of the following: Ancient Sumer; The Indus Valley; Ancient Egypt; The Shang Dynasty of Ancient China.

A study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066.

Changes in Britain from the Stone Age to the Iron Age.

#### **Geography**

Locate the world's countries, using maps to focus on Europe (including the location of Russia) and North and South America, concentrating on their environmental regions, key physical and human characteristics, countries, and major cities.

Understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom, a region in a European country, and a region within North or South America.

#### **D&T**

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