

### What we are learning:

The topic for this half term is 'A Cracking Idea.'  
The children in upper school will be learning about forces and they will be designing and making a moving vehicle with pulleys or gears.

### Key questions for learning:

What is a force?  
What can forces do to objects?  
Which forces are there?  
Who discovered forces?  
What is a fair test?

### Understanding of the World

During this half term in science, the children will learn more about the discoveries of Isaac Newton.

They will plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary and how to plan a fair test.

### Literacy and Communication

In English, your child will be reading the non-fiction book, 'Women in Science.'

The children will be looking at the lives and successes of Hypatia, Hertha Ayrton, Rosalind Franklin and Ada Lovelace.

They will be completing a number of writing tasks around this, including a biography and a news report.

### PE

In PE, we are going to be developing our skills in hockey and also continuing with our work in gymnastics.

# A Cracking Idea

Upper Key Stage 2  
Forces: A cracking idea or an accidental discovery?

### Home Learning Opportunities:

Home reading is essential to developing your child's reading. Please encourage your child to take part in the 10 minutes a day reading challenge.

In addition, if you could practise any tables and division facts with your child this will really help them as these facts form an important part of the maths curriculum.

Thank you for your ongoing support

### Understanding of the World

In RE, we will be looking at how different faiths show they belong. We will look at how this relates to their ideas about community, identity and belonging. Finally, we will be looking at different Rites of Passage.

### Physical, Emotional Health and Well Being

The children will develop their understanding of the role that money plays in people's lives, attitudes towards it and what influences decisions about money.

### Maths:

In Year 5 and 6, the children will be looking at angles in geometry and looking deeper into measures involving area and perimeter. We will also begin our work on properties of shape. Finally, in Year 6, we are looking at ratio and also covering algebra.

### Design & Technology

This half term, the children will be designing and making a vehicle with gears or pulleys. They will evaluate their prototype and make changes to their final design. They will use their finished product in a science experiment, focusing on friction.