

## Can I explain the process of completing a scientific experiment?

### Previous science learning

During last half term, we looked at *Electricity, Light and Sound*, including- exploring how circuits work and comparing how light and sound travel. **Connector- Mechanics**

### This learning experience- Forces

During this enquiry, we will be completing a range of experiments linked to forces and exploring how we can capture the process so that it can be understood and replicated by someone else. We will be exploring gravity, resistance and various mechanisms including- levers, pulleys and gears.

#### Concepts- Change

#### Systems and Structures

#### Investigation

#### Outcome

Year 6 will produce a piece of writing to, accurately, capture the process of completing a scientific experiment.



#### Key vocabulary

Force Friction  
Resistance Gravity  
Levers Pulleys  
Gears Prediction  
Variables Control

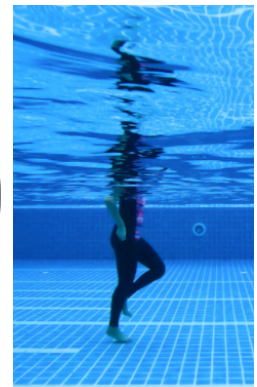
### Knowledge and Skills

#### SCIENCE

- Explain how gravity works
- Explore the term *resistance* and investigate air/water resistance and friction
- Recognise that some mechanisms allow a smaller force to have a greater effect

#### WRITING

- Select language that shows a good awareness of the reader
- Use a range of devices to build cohesion within and across paragraphs/sections
- To be able to make a choice about when to write in the active or passive voice



### Character

Our gateway is **Expression**

The character value that we are focusing on is **honesty**. We are going to be evaluating ourselves as both scientists and writers: taking the time to celebrate our strengths and identify next steps to ensure we are making progress in



### Metacognition

With a focus on **independence**, we will be developing our ability to-

- set my own challenges and success criteria
- use time management effectively

#### Thinking Tool

