



Forces

Big Question
How do forces affect movement?

Why do objects fall towards the earth?
Can I identify that forces are pushes and pulls? Can I identify different types of force such as buoyancy, friction, air resistance and water resistance?

How is the weight of an object in Newtons and the mass of the same object in Kg related?

How does the friction of different surfaces affect movement?

Can I look at how gears work on a bike and talk about the effect they have?

Can I conduct a fair test upon how different objects such as spinners or parachutes are affected by air resistance?

Can I conduct a fair test upon how objects are affected by water resistance?

Can I recognise that some mechanisms (including levers and pulleys) allow a smaller force to have a greater effect?

Assessment Question / Task

Using visual aids (images), create an audio recording to explain our understanding of

Key Vocabulary

I will use:

acceleration, air resistance, buoyancy, effort, force meter, gravity, mass, Newton, pivot, rigid, gears, lever, friction, pulley, unsupported, water resistance, weight, mechanism.

What to revisit?

Pushes and Pulls (Year 3)

Vertical Threads

Resistance