KINGS NYMPTON Primary School

Forces

Innovation

Prior Learning:

Year 4 – Links to the states of matter and the changes that occur.

Year 3 – Compare how different objects move on various surfaces, exploring magnetic lorces.

Year 2 – Comparing and contrasting the variety of everyday materials.



How does a boat stay afloat?



My Component Knowledge:

Lesson 1: I can identify balanced and unbalanced forces.

Lesson 2: I can describe the effectiveness of air resistance.

Lesson 3: I can investigate how levers and pulleys work in correlation.

Lesson 4: I can explore gears and their combinations.

Lesson 5: I can investigate the effect of ground friction.

Lesson 6: I can describe the importance of buoyancy.

My Composite Knowledge:

I can describe and experiment different forces, by recognising the effects they have on various objects. I can differentiate between materials and there use.

My Powerful Knowledge:

I can theorise how scientists developed a theory of gravitation. Detailing how different forces are used in our everyday lives.

Key Vocabulary

Tier 1: push, pull, gravity, weight, mass, resistance.

Tier 2: force, air resistance, friction, Isaac Newton, buoyancy

Tier 3: Newtons, Galileo Galilei, streamline, gravitational pull.

What are different forces?

Who is Isaac Newton?



