

Leintwardine Endowed CE Primary School Learning Journey Itinerary

‘Letting Our Light Shine’

SUBJECT : Science	YEAR : A	TERM : Spring 1	YEAR GROUPS : 5/6
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Key Question: How do forces effect our movement?

Previous Knowledge –
That force are a series of pushes and pulls.
That gravity is a force that pulls objects down.

END OF UNIT OBJECTIVES

Some children will not yet have met what is expected and will show that they are emerging because they can:	Most children will show that they have reached the expected level because they can:	Some children will have gone beyond the expected level and will show that they are exceeding because they can:
Identify forces as pushes and pulls. Explain that gravity is a force that pulls objects towards the centre of the earth, often seen as pulling them down. Explain, with support, the effects of friction, including air and water resistance, on moving objects. Identify different mechanisms.	Identify and explain the different forces acting on objects. Explain that gravity is a force that pulls objects towards the centre of the earth. Explain the effects of friction and that different surfaces create different amounts of friction. Explain what air resistance and water resistance is and suggest how their effects can be amplified. Identify streamline shapes. Identify different mechanisms and explain how they work.	Identify and explain forces. Define air and water resistance and how their effects could be amplified as well as decreased. Understand how different materials create different amount of friction. Identify different mechanisms and explain how they work.

ENRICHMENT OPPORTUNITIES Helping children to remember more Investigations using scientific equipment. Practical experiences – observing, making, recording. Practical learning experiences Making parachutes.	SUBJECT SPECIFIC VOCABULARY Force, push, pull, opposing, gravity, air resistance, water resistance, friction, Isaac Newton, Galileo Galilei, streamline, brake, mechanism, lever, gear, cog, pulley, machine, newtons, transmissions.	CROSS-CURRICULAR LINKS Links that we can make to help children make sense of what we want them to know and be able to do. Maths – collecting and interpreting data.
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