



TSS Primary Science MTP 2022-2023

Year 1 Block 5 – Physics - Forces

Key Targets and Learning Objectives	Key Activities	Equipment
<ul style="list-style-type: none">• 1Pf.01 Explore, talk about and describe the movement of familiar objects• 1Pf.02 Describe pushes and pulls as forces• 1Pf.03 Explore that some objects float and some sink• 1Ps.01 Identify different sources of sound• 1Ps.02 Explore that as sound travels from a source it becomes quieter• 1Pe.01 Identify things that require electricity to work• 1Pe.02 Explore, talk about and describe what happens when magnets approach and touch different materials.• 1SIC.02 Talk about how science explains how objects they use, or know about, work.• 1SIC.01 Talk about how some of the scientific knowledge and thinking now was different in the past.• 1TWSp.02 Make predictions about what they think will happen.• 1TWSc.05 Collect and record observations and/or measurements by annotating images and completing simple tables.• 1TWSp.01 Ask questions about the world around us and talk about how to find answers.	<ul style="list-style-type: none">• Introduce and explore magnets. What are they? What do they do? Go on a hutb around the classroom to find magnetic and non-magnetic things. What do we notice?• Sorting and organizing into venn diagrams objects that are magnetic/not magnetic.• Explore different types of forces. Draw diagrams of some forces in action.• Discuss sound. How do we hear? Why is hearing and sound so important. Go on a sound walk around the school. Identify different sources of sound around them in their daily lives.• Make string telephones to explore sound travel.• Discuss what a force is and different types of forces. Children to create a forces poster.• Cars on ramps and speed. How do we make them go faster? What is happening? Bouncing balls around the room.• Explore basic electrical circuits and encourage the children to begin to think about uses for electricity. Create mind map of ideas. Could we live without electricity?• STEM project floating and sinking (twinkl) Junk modelling experiment.• Explore materials that float and materials that sink. Give predictions and reasoning.• Create Bar graphs/ tallies and Venn diagrams to represent findings in all areas where possible (link to maths)	<ul style="list-style-type: none">• Magnets• Magnetic items• Non-magnetic items• Ramps• Mini cars• Ipads• Electrical circuits• Paper cups• String• Large tubs of water• Junk Modelling.• Laminated pictures of technology across the years.



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- Discuss similarities and differences between sciences 30/40/50 years ago and now. Examples of computers, phones, ipads, cars, medicines etc.

Key vocabulary	Going Green Link	Integration of technology
<ul style="list-style-type: none">• Question, Predict, Observe, Equipment, Describe, Experiment, Investigate, sink, float, adapt, properties, record, table, forces, push, pull, gravity, friction, magnetic, sound, travel, sound waves, electricity, circuit, battery, power.	<ul style="list-style-type: none">• Discuss how science can help us to keep our planet healthy. What are scientists doing to ensure the planet survives and improves at the same time.	<ul style="list-style-type: none">• Recording videos of forces in action on i-pads.• Videos on forces, floating and sinking and magnets.• Creating graphs and tallies to record information using I-pads and computers.