

“Success for Every Child”



Y2 Unit Overview - This document is designed to inform you of the learning planned for your child’s next unit of inquiry. In addition, we offer you some optional ideas for supporting your child at home.

How the World Works

In their second unit of inquiry, the Year 2 students will inquire into the central idea, ‘**Forces affect objects around us.**’ During this unit, students will inquire how scientists investigate and measure different types of forces and how these connect to and impact other objects by change of speed, space or direction of motion. Students will document these relationships by developing their scientific skills of **observation**. Through the unit, students will become greater **inquirers** as they **formulate questions** and **research** answers, growing in **curiosity** as they learn about things around them. Through the concept of connection, students will be encouraged to explore different types of forces and how they connect to one other. Students will develop the **research** skill of **planning** to carry out the main steps of an investigation, build fair tests and recognise potential variables.

KEY VOCABULARY used in this unit will be:

Gravity, magnetic, push, pull, friction, velocity, shape, mass, motion, force, position, direction, pattern, function, mass, volume, capacity.

Please consider using your Mother Tongue to develop your child’s understanding of these words.

CONCEPTUAL QUESTIONS This unit will be addressed through the lens of **function**, **connection** and **causation**. Over the next few weeks, try to ask your child lots of ‘how’ questions as they begin to inquire into how scientists measure and investigate how forces are connected to other things (e.g. *How can you make an object move? How can we control a force to get an object to do what we want it to do?*) Ask your child ‘Why’ questions as they explore how forces impact other objects by change of speed, space or direction of motion (e.g. *Why is it like it is?*) These questions, asked in any context, will support the work we do in school.

FUN THINGS TO DO

Become a forces detective - have a walk around your neighbourhood, identifying different examples of forces acting upon objects to make them move (e.g. *child’s foot pushing against the ground to make their scooter move*). Create your own playdough and see how many different ways you can change the shape. Investigate the different ways you can make a toy car move without pushing it with your finger. Take a trip to the science museum and explore the ‘Motion’ section.

ACTION is a key element of the Primary Years Programme. We are always looking to see how children take their learning and apply it independently. This can take many forms - from a discussion about the Unit of Inquiry at home initiated by your child, role-play or even a request to bring a book or artifact in to school because it relates to the work we have been doing in school. Now that you know what the unit is all about please keep your eyes open for evidence of action and let us know! **Any action that you tell us about will be kept as part of your child’s records.**

