

# Are you attractive enough? Y3



LC1 I can compare how things move on different surfaces.

I can hold an experiment to compare how things move on different surfaces.

LC2 I know that some forces need contact between two objects, but magnetic forces can act at a distance.

LC3 I know how magnets attract and repel.

LC4 : I can use the force of magnetic attraction to make a magnetic game.

I can explain how a magnetic game works by attracting materials.

## We learn the following scientific knowledge and skills...

- compare how things move on different surfaces
- notice that some forces need contact between two objects, but magnetic forces can act at a distance
- observe how magnets attract or repel each other and attract some materials and not others
- compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials
- describe magnets as having two poles
- predict whether two magnets will attract or repel each other, depending on which poles are facing.

We learn the following computing knowledge and skills...

\*use the internet to research the different kinds of forces.

Hook for Learning:

\*Explore with a number of magnets and work out which side attracts and which side repels

\*predict whether two magnets will attract or repel each other, depending on which poles are facing.

## Empowering Learning

As Independent Enquirers can we \*predict whether two magnets will attract or repel each other, depending on which poles are facing

\*Plan an investigation to compare how things move on different surfaces?

## As Talkers can we...?

\*Think of and talk about different ideas and possibilities when solving problems.

\* Evaluate their bridge, talking about who or what helped them learn and how and why they know.

As Writers can we...?

Write a set of instructions using imperative verbs and adverbs.

Key Vocabulary

Magnet, force, friction, attract, repel, measure, gravity, magnetic field, energy, movement, push, pull, resistance, opposite, equal

We learn the following design knowledge and skills..

Create a game that uses a magnet to control an object.

We learn the following mathematical knowledge and skills..

Create a bar chart to record our results.