#### Scientist



#### William Gilbert (Magnetism and electricity)

Jyoti Sehdev (Senior civil engineer)

#### Skills

I'm recording findings using diagrams, charts and tables like an architect.

I'm gathering, recording and presenting data like a  $\# \parallel$ seismologist.

Observation over lune

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Identifying, classifying and grouping

#### Careers

Architect (designs buildings)

Seismologist (studies earthquakes)

### Enquiries

Which magnet is strongest? ~~



If we magnetise a pin, how long does it stay magnetised for?



Does the size and shape of a magnet affect how strong it is?

Which materials are magnetic?



N	does a	com	pass	work?	

#### **Y3 FORCES & MAGNETS**

Brecknock Primary School

example, opening a door, pushing a swing).



depending on how their two poles (North or South) are positioned. Magnetic forces can

act without direct contact, unlike most forces, where direct contact is necessary (for

Magnets attract or repel each other and attract some materials and not others,



#### What you should already know

Magnets can attract some objects, and each other depending on how they are positioned.

That objects can move if a force, such as a push or a pull, is applied to it. The greater the force, the greater the motion.

#### What comes next?

Y5 - the study of gravity and that unsupported objects fall towards the Earth because of the force of it. That air resistance, water resistance and friction, that act between moving surfaces.

## Key Learning

- 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 only some materials
- 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
- Predict whether two magnets will attract or repel each other, depending on which poles are facing.
- Explore the behaviour and everyday uses of different magnets (for example, bar, ring, button and horseshoe).
- Explore the strengths of different magnets and finding a fair way to compare them

#### Key vocabulary

Push Pull Surface Magnet Magnetism Magnetic Attract Repel Metal

Force

# Year 3: Forces & Magnets



Year 3: Forces & Magnets

