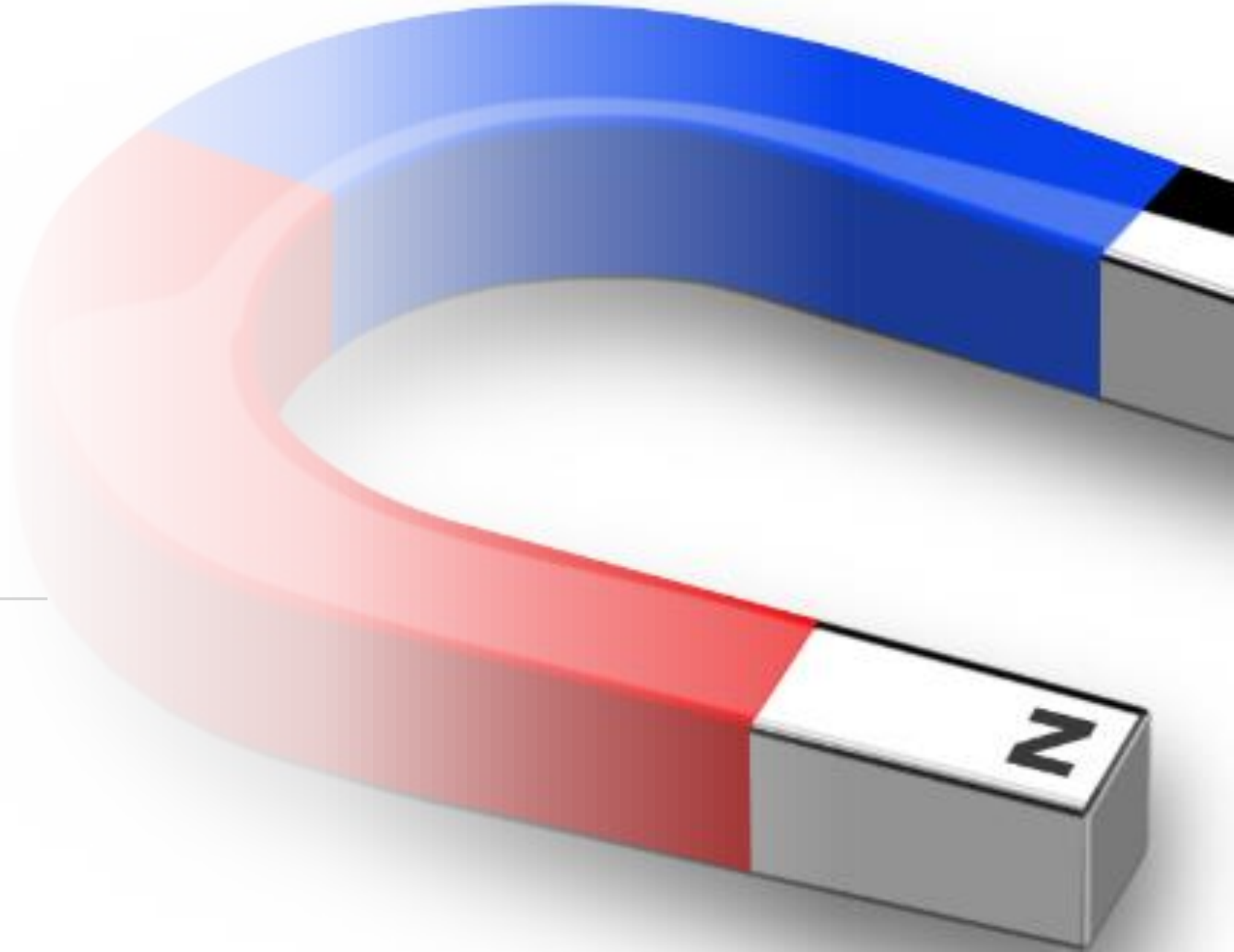




Science Summer 23

Forces, friction and magnets.
Class Tamar



We started off thinking about what we knew about forces and magnets.

I knew that the north pole can't go against the north pole. They repel each other.



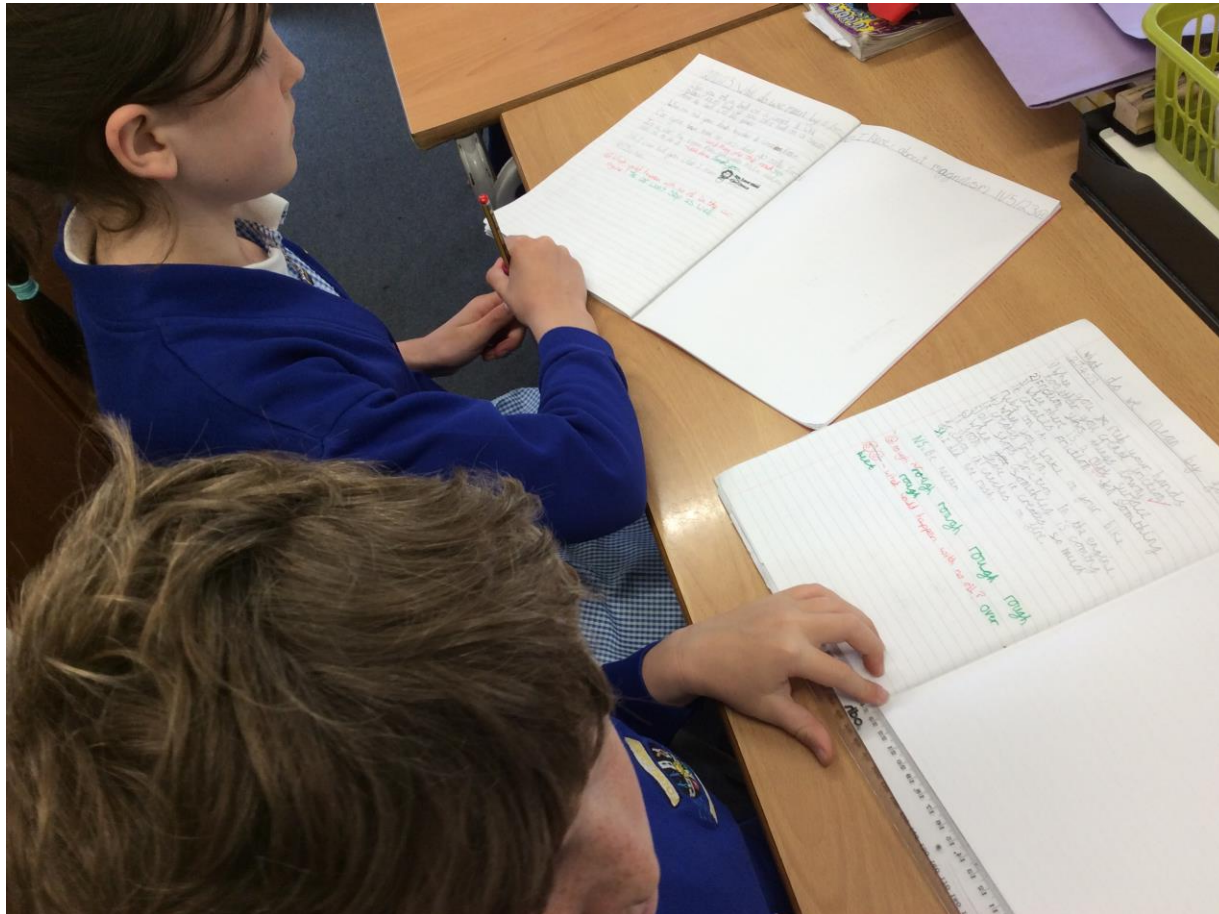
What do we mean by a force?

What do I already know about magnets and force?	What I think I know about magnets and force, but I am not too sure?
magnets can attract iron filings	not all metal can be attracted by magnets
Earth is the world's largest magnet because of its magnetic field	
the magnetic field is what protects us from harmful solar radiation from the sun	
the same magnetic forces can either pull things together or push them away from each other	

What I know about forces and magnets

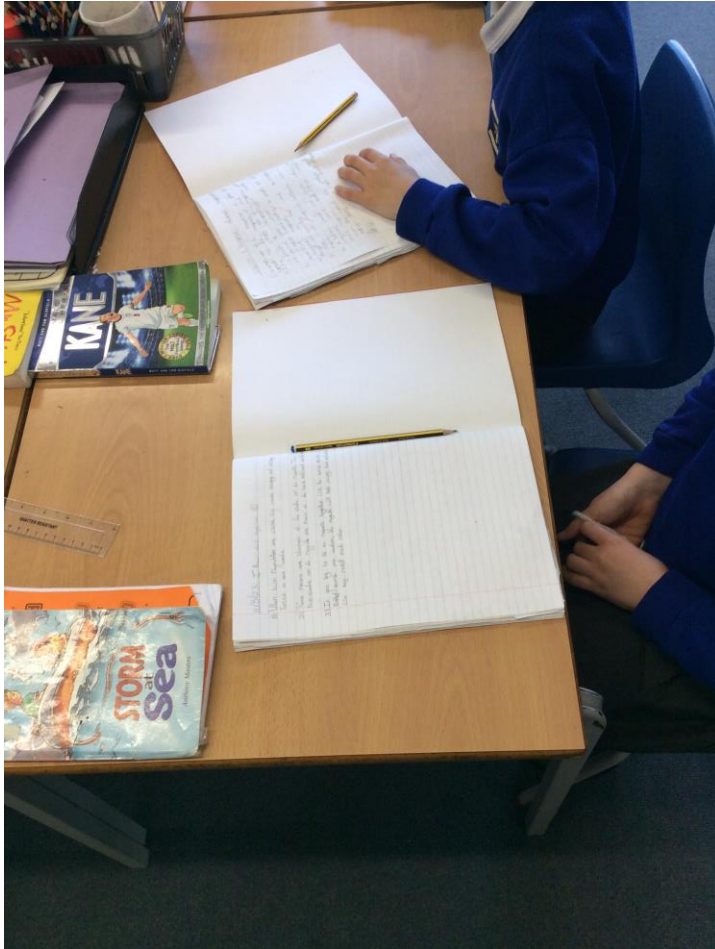


We learnt about friction and the forces of pushing and pulling as well as friction can produce heat for example when you rub your hands together.

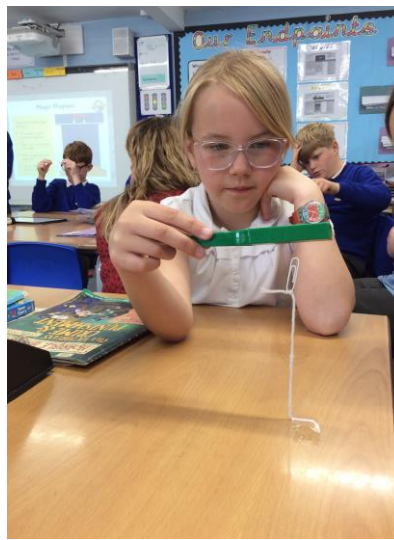
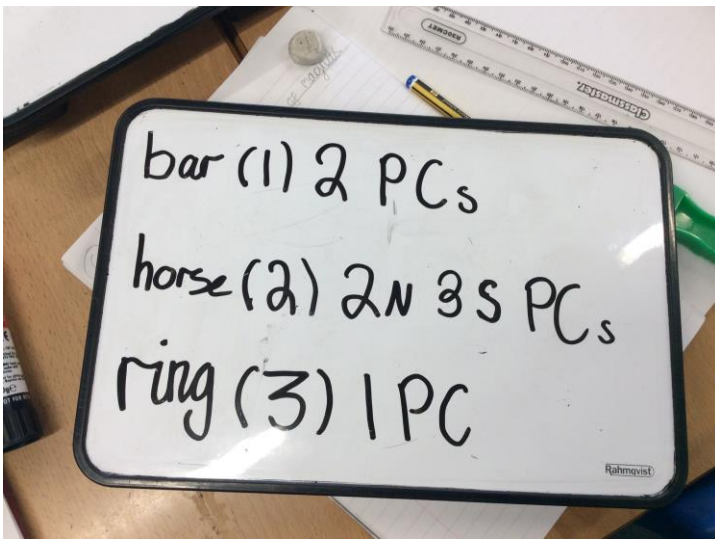
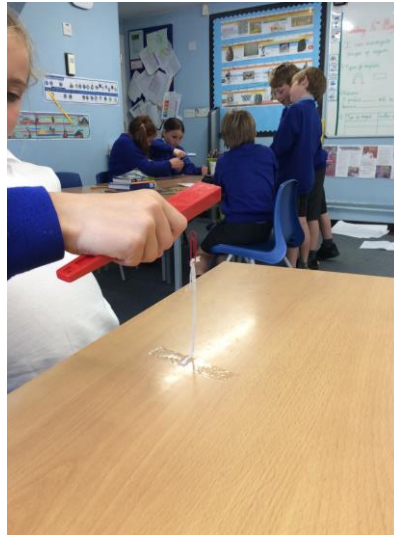


When you rub your hands together it makes heat and that is friction.

When thinking about magnets we learnt that they have poles, will attract or repel depending on which pole as well as they create the forces of pushing and pulling.



The Earth is one big magnet because it has an iron core.



We did an experiment that tested the strength of magnets.

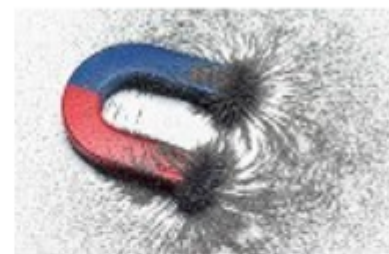
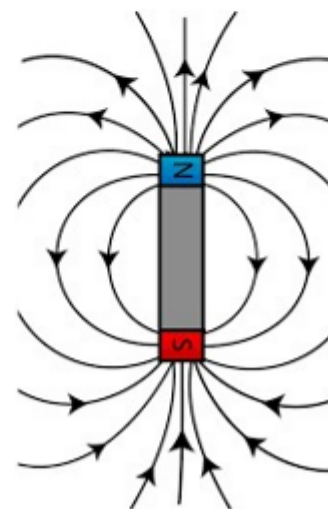
We found out that paper clips were magnetic. On the horse shoe magnet the south pole could hold 3 paper clips but the north only 2!


Science Year 3 Knowledge Organiser

Main Learning: Magnets and forces

Key knowledge
Know what we mean by a 'force'
Know how different surfaces speed things up or slows things down
Know what a pulley is and how it works
Know how magnets work

Vocabulary	
repel	Two (magnetic) poles which are the same will repel each other
attract	Two (magnetic) poles which are not the same will attract each other
Pole	There are two Poles on Earth a South Pole and North Pole
pulley	A collection of one or more wheels over which you loop a rope to make it easier to lift things
magnet	A material or object that creates a magnetic force
magnetism	Magnetism is a force that can be felt by metals such as iron, steel, nickel and cobalt.



	Prior Knowledge– Living things and their habitats, Animals including Humans, Teeth and digestion, electricity, Nutrition, muscles and skeleton.	Personal development Making links to everyday items, ie fridge doors and forces that we experience. Links to geography and the points of the compass. Children are aware of different in science and technology for example aerodynamics.