



SCIENCE
CHAPTER 7- ENERGY
LESSON 6- MAGNETISM AND ELECTRICITY
PART-1



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WHAT IS A MAGNET?

A magnet is something that can attract iron and certain other metals

EVERY MAGNET HAS TWO POLES

A NORTH pole | SOUTH pole



Like Poles Repel

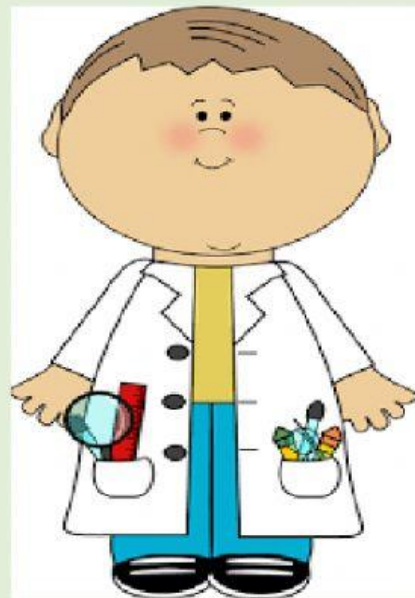


Opposite Poles Attract

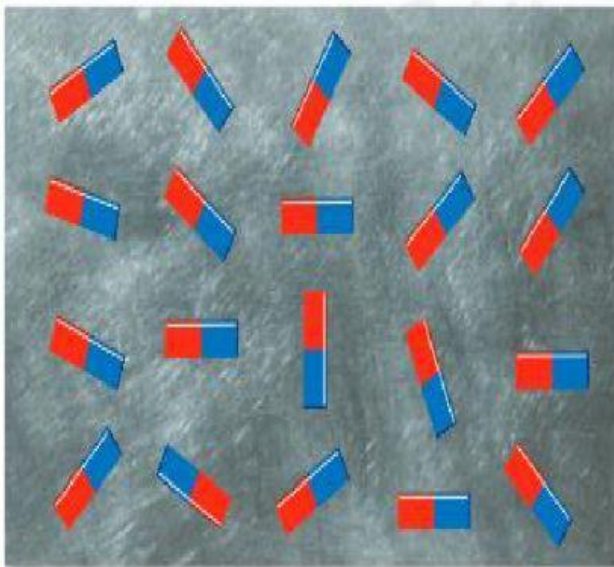


WATCH VIDEO ABOUT MAGNETISM

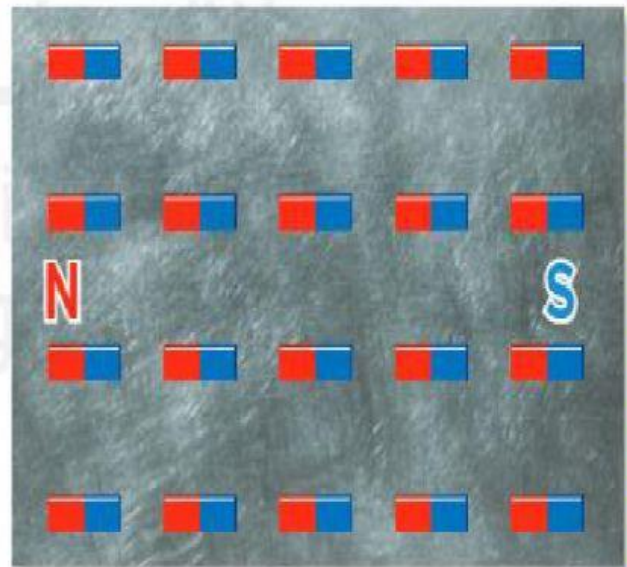
CLICK ON MAGNET ICON TO
EXPLORE LAB ABOUT
MAGNETIC POLES



HOW MAGNETIC PARTICLES INTERACT

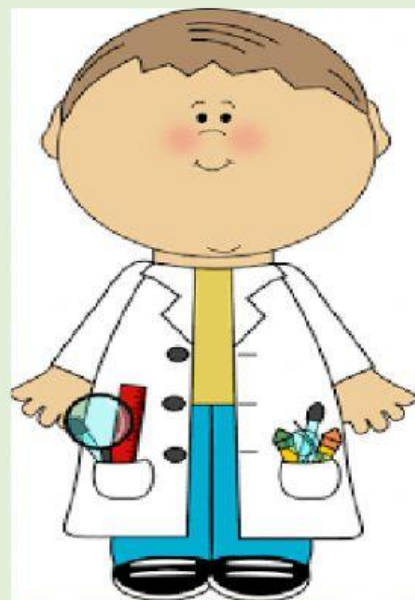
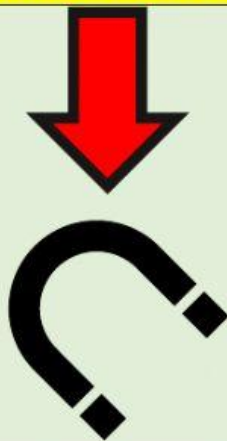


▲ Metals are made of tiny particles.
Normally, the particles point in different directions.



▲ When a magnet is brought near iron, nickel, or cobalt, the particles line up. They point in the same direction.

CLICK ON MAGNET ICON TO
EXPLORE LAB ABOUT
MAGNETIC PARTICLES

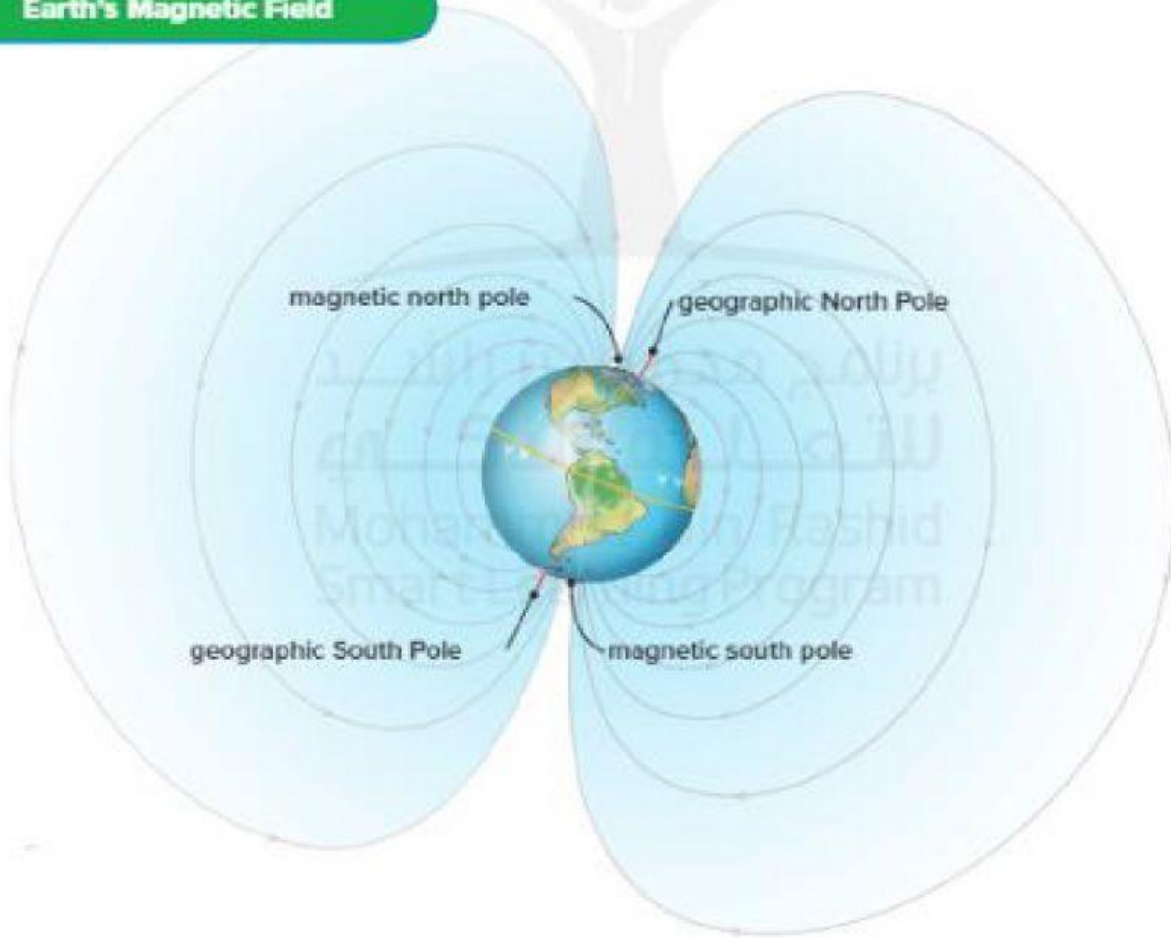


What are magnetic fields?

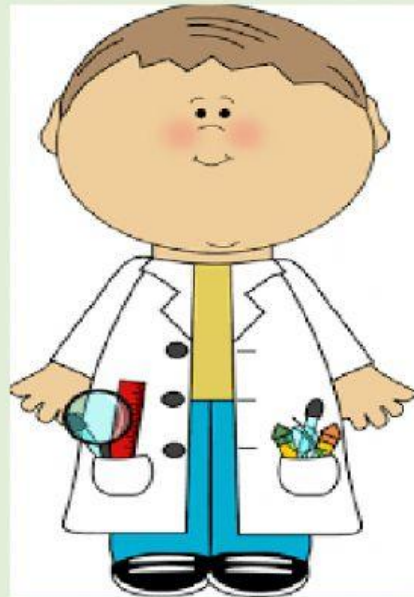
An area of magnetic force around a magnet

Some of the inside of Earth is made up of melted iron. This iron creates a magnetic field that surrounds earth

Earth's Magnetic Field



**CLICK ON MAGNET ICON TO
EXPLORE LAB ABOUT EARTH
MAGNETIC FIELD**



MAGNETIC FIELD LINES

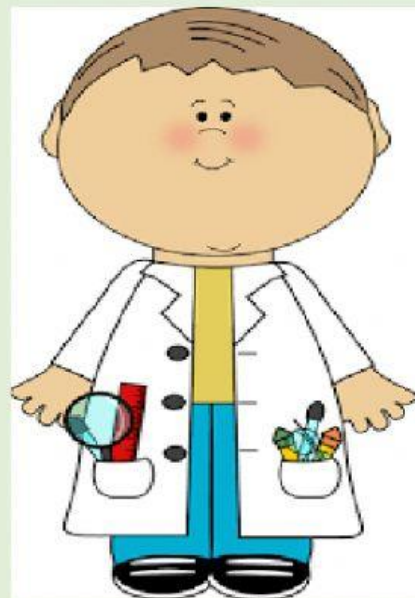


**Magnetic field lines are a
visual tool used to
represent magnetic
fields.**

USING COMPASS

[WATCH VIDEO ABOUT USING COMPASS](#)

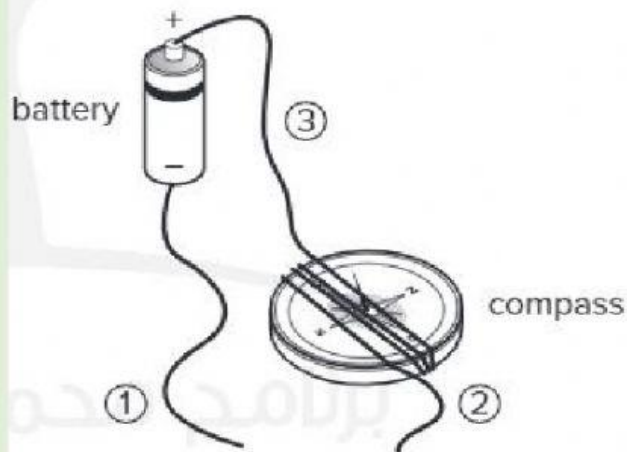
[CLICK ON MAGNET ICON TO
EXPLORE LAB ABOUT USING
COMPASS](#)



QUESTIONS FROM BOOK

1.

Look at the diagram below.



How could you make the compass's needle move?

- A** replace the wires
- B** replace the battery
- C** connect wires 1 and 2
- D** connect wires 2 and 3

2.

Birds have natural magnets in their bodies. How might this help them?

TYPE
YOUR
ANSWER

3. Earth is surrounded by an invisible

4. Like poles each other.

5. Unlike poles each other.

6. You can find directions using

If you are lost.

7. Magnetic field is stronger at the