



## Student's forces and magnetism worksheet

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
\_\_\_\_\_

**Magnets** are fascinating objects that have the ability to \_\_\_\_\_ or \_\_\_\_\_ other magnets and certain metals.

Every magnet has **two poles**: a \_\_\_\_\_ and a \_\_\_\_\_. Opposite poles **attract** each other, while \_\_\_\_\_ poles **repel**. This attraction and repulsion are caused by **the magnetic field** around the magnet.

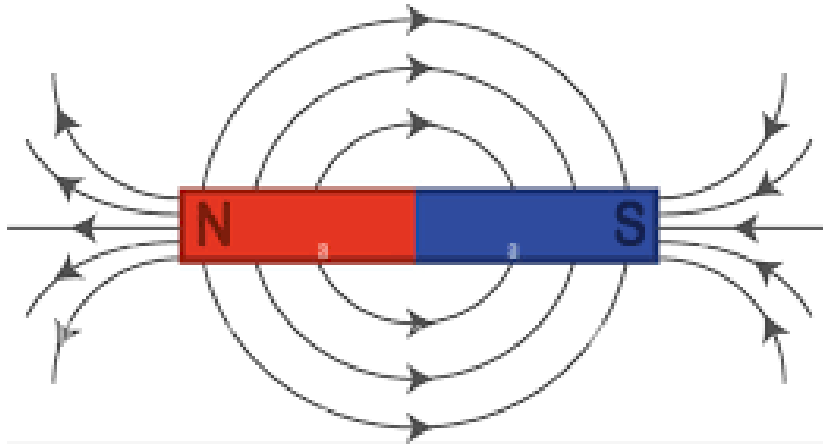
The \_\_\_\_\_ field is an **invisible force** that surrounds the magnet. It creates a pathway for the magnet's power to flow. The magnetic field is strongest at the \_\_\_\_\_ of the magnet.

The magnetic field also affects certain materials, such as \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. These materials can be attracted to magnets and can even become magnets themselves.

The strength of a magnet depends on various factors, including the material it's made of and its size. The stronger the magnet, the more powerful its \_\_\_\_\_

Magnets play a vital role in many aspects of our lives. They are used in \_\_\_\_\_ to help us find directions. They are also used in **technologies** like \_\_\_\_\_ motors, where they convert electrical energy into **mechanical** energy. Additionally, magnets are used in data storage devices like hard drives and in various industrial applications.

Understanding how magnets work helps us appreciate their properties and applications in our daily lives. It allows us to explore the wonders of magnetism and its role in shaping the world around us.



### Lesson Game/ Activity

I know that memorizing parts of the respiratory system is not easy. But let us play (this game) and see whether we can remember the work of each part of the respiratory system. Do this in twos. You have five minutes to finish this task.

### Assignment or Class discussion

What would happen in the world if there was no gravity?