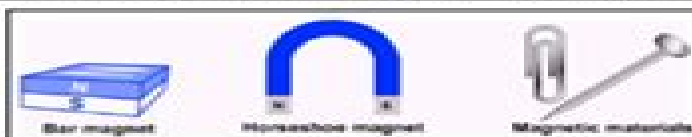


Magnetism

What is a Magnet?

A magnet is something that can attract metal or another magnet. A magnet can also repel another magnet.



Properties of magnets:

- Magnets have two opposite poles: north and south.
- If divided, each part of a magnet will also have a north and south pole (you can never make an unpaired pole)
- Magnets exert forces on other magnets, called "Magnetic forces"
- Opposite poles attract (North attracts South)
Like poles repel (North repels North, etc)

Permanent and Temporary Magnets

*Iron makes the best temporary magnets.
 Only lodestone and magnetite are permanent magnets.*

Permanent magnet – a magnet that retains its magnetism and does not need to be "recharged." *Lodestone* and *magnetite* are the only two permanent magnetic substances.

Temporary magnet – a magnet that occurs when near a permanent magnet, but loses its magnetism away from the permanent magnet, many metals can be temporary magnets.

Electromagnets

Electromagnet—a magnet made from electricity. When electricity flows it causes magnetism.

Best use of an electromagnet—we can turn it on and off.
 Toasters, doorbells: any job needing a force on command needs an electromagnet.

A simple electromagnet



Strengthening an electromagnet –

- Increase electricity*
– more batteries or stronger battery.
- Increase number of coils*
– actually adds electricity, too.
- Add iron to the core* (center of electromagnetic)
– the iron amplifies the electromagnetic field.

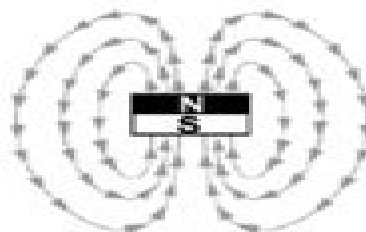
Second best use of an electromagnet
 —we can control how much force we need by increasing or decreasing the electricity.

How do Magnets Work?

Spinning electrons cause magnetism.

Permanent magnets—all of the electrons in an atom are spinning the same way and the little electromagnetic add up.

Temporary magnets—the electrons can switch to spin in the same way when near a magnet, but will fall back after the magnet leaves.



Any magnet will reach inside the magnetic field (the arrows)

The arrows show the direction a North pole would move in the magnetic field.

Magnetic Fields

Magnetic Field—the area in which a magnet or piece of metal feels the force of another magnet.

Rules for magnetic fields—

- drawn from North pole to South pole;
- closer or more arrows = stronger field.
- any magnet will react in a magnetic field.
- every magnet creates a magnetic field.



The magnet of a compass reacts to the Earth's magnetic field to point to magnetic north (in Canada), not true north (the North Pole).

Stephen Murray Magnetism Worksheet Answers

A Loxley



Stephen Murray Magnetism Worksheet Answers:

Stephen Murray Magnetism Worksheet Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Stephen Murray Magnetism Worksheet Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Stephen Murray Magnetism Worksheet Answers : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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