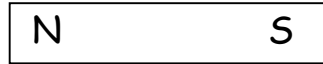


## Note Taking Guide- Episode 1002

Direction of Magnetic Field Lines-

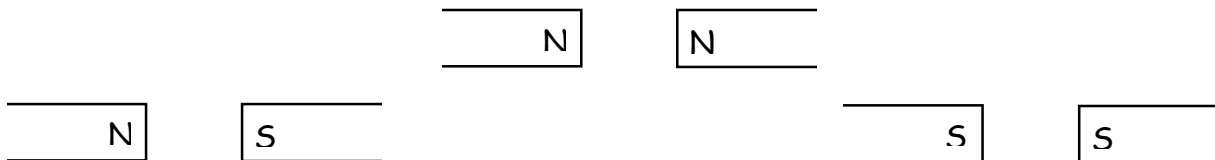
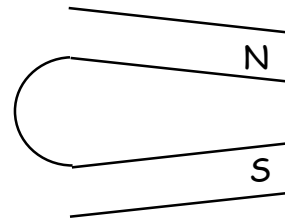
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Magnetic Flux -

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What is the advantage of using a horseshoe magnet?



Which material affects a magnetic field?

- Index cards
- Razor blade
- Stream of water
- Straight pin
- Aluminum foil

Only \_\_\_\_\_ substances can distort a magnetic field.

## Note Taking Guide- Episode 1002

Challenge - How does an automatic traffic signal know that your car is there?

Notes on the earth's magnetic field-

Aurora Borealis - \_\_\_\_\_ Lights:

High temperatures on the sun's surface produce \_\_\_\_\_, the fourth phase of matter consisting of charged particles. These charged particles travel throughout the solar system as \_\_\_\_\_. When charged particles reach the region of the earth's outer atmosphere called the \_\_\_\_\_, their motion is controlled by the earth's magnetic field. The charged particles are able to slip through the earth's magnetic field at the \_\_\_\_\_ and enter the atmosphere. They collide with \_\_\_\_\_ in atoms of gases like oxygen and nitrogen and transfer \_\_\_\_\_, making the electrons jump to higher energy levels. When they fall, they give off visible \_\_\_\_\_ of different colors.

Show What You Know: