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LYMAN ALLYN SCIENCE
SATURDAY PRESENTS

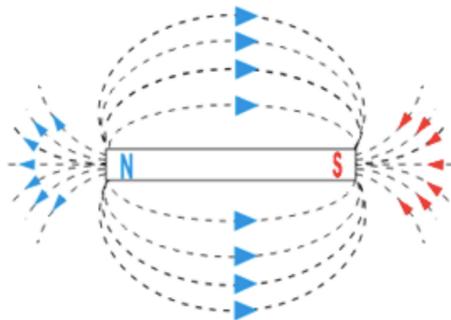
MAGNET PAINTING

WHAT IS A MAGNET?

A **MAGNET** is a rock or a piece of metal that can pull certain types of metal toward itself. The force of magnets, called **MAGNETISM**, is a basic force of nature, like electricity and gravity. Magnetism works over a distance, which means that a magnet does not have to be touching an object to pull it!

HOW DO MAGNETS WORK?

In magnets, the molecules are uniquely arranged so that their electrons spin in the same direction. This arrangement of molecules creates two ends, or poles, in a magnet: a North pole and a South pole. The magnetic force in a magnet flows from the North pole to the South pole. This creates a **MAGNETIC FIELD** around a magnet.



Magnets attract, or pull, certain types of objects. These objects have to be made out of a certain type of metal called iron. Circle all the objects below that you think magnets will attract!

METAL SCREWS

METAL BOLT

PAPER

COTTON BALL

PLASTIC SPOON

MARBLE

METAL WASHER



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MATERIALS:

- Magnet (the stronger the better!)
- Metal objects (screws, springs, washers, etc.)
- Paper
- Paint
- Plastic Tray that paper can fit in
- Small cups or plate for paint
- Spoon



DIRECTIONS:

1. Place your paper in your plastic tray.
2. Distribute paint in small cups or on a plate. Using a spoon, submerge one of your metal objects in the paint. Make sure it is all covered with paint!
3. Using the spoon again, place the metal object on your paper in the tray.
4. Lift the tray and slide your magnet underneath the tray. See how you can "paint" using **MAGNETISM!**
5. Experiment with different objects. Does a spring make different marks than a washer? Experiment with different colors too!