



FISHING WITH MAGNETS

Can you guess what will stick to a magnet?

THE GOAL:

Make predictions about which objects will be attracted to magnets, then test them to find out.

WHAT YOU NEED:

- Magnet
- Pencil or stick
- String
- Tape or glue
- Simple household objects

TRY THIS:

1. Make a magnetic fishing rod by tying a piece of string to a pencil or popsicle stick. Glue or tape a magnet to the other end of the string.
2. Prepare to go fishing. Gather a variety of small household objects (Examples: paper clip, rubber band, spoon, coin, pencil, marble). Put them in a container or lay them all out on a table.
3. Make some predictions. Pick out two things that you think will stick to the magnet. Is there anything you won't think will stick to it?
4. Go fishing! Drag your magnet over the items and see what sticks. Look back over your predictions. Were they correct?
5. Test your magnet out on other objects around you. What do you notice about the objects that stick to the magnet?

WHAT IS A MAGNET?

- A magnet is an object that attracts and repels other magnets and metals.
- Metals like iron, cobalt, and nickel are magnetic, meaning they are attracted to magnets. Other metals like copper, silver and gold are repelled by them.

READ ALL ABOUT IT!

1. **Magnet Max** by Monica Luzano Hughes
2. **What Makes a Magnet?** By Franklyn Branley
3. **Magnets: Pulling Together, Pushing Apart** by Natali Rosinsky

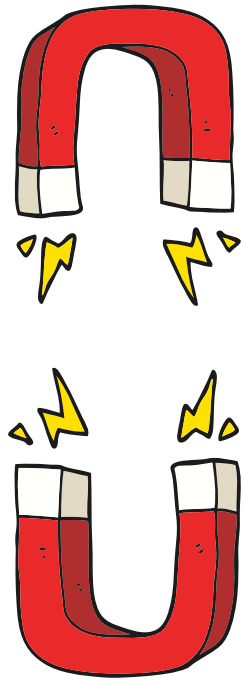


FISHING WITH MAGNETS CONT.

- A magnet has 2 sides, called a north pole and south pole. If you push the same poles of two magnets together, they will pull away. If you push different poles of 2 magnets together, they will pull apart.

MORE TO EXPLORE

- If you have two magnets, try pushing them together. How does it feel when you bring them close together? Do you feel a push or pull? Does it feel different when you hold different sides together?
- Make your own fish pond. Draw some fish on a piece of paper and cut them out. Put a paperclip on each fish. Then decorate another sheet of paper to look like a pond. Put the fish in the pond and go fishing with your magnetic rod. You can race against a partner to see who can catch the most fish (This is a fun way to practice counting).



DID YOU KNOW?

The Earth is a giant magnet! That's why it has a North Pole and a South Pole. A compass needle uses a magnet to always point north.

STANDARDS

This activity aligns with the following Oklahoma Academic Standards:

- K-PS2-2 Motion and Stability: Forces and Interactions
- 2-PS1-1 Structure and Properties of Matter



Tulsa Regional
STEM Alliance