



Magnet Maze

Subject: Magnetism, Electricity

As you learn about magnets and the pull they have with the metal community, why not put them to the test. Build your own maze and see if you can use the force to guide a magnet to the finish line. Once you become a pro, challenge your friends to see who can complete your maze the fastest.

Materials List

1. paper plate
2. 2 small magnets
3. pencil or pen
4. markers, colored pencils or crayons
5. popsicle stick
6. glue
7. button or similar object

Grade: 3rd

Time: 20 minutes

Vocabulary: magnetism, magnetic field, attract, repel, iron, bar magnet, magnet, North and South Pole, opposites, force

NGSS: 3-PS2-3. Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other. 3-PS2-4. Define a simple design problem that can be solved by applying scientific ideas about magnets.

Instructions

1. Draw a maze on your paper plate in pencil. You can print a template like the picture on the other side of this worksheet or design your own maze.
2. Decorate your maze. Draw a reward at the center or end of the maze, like a trophy in the middle or small rewards along the way.
3. Glue one of the magnets to the end of your popsicle stick.
4. Glue the other magnet to the button. Once the glue dries, you're ready to solve the maze!
5. To solve the maze, hold the popsicle stick with the magnet under the plate. Put the magnetized button on top of the plate at the beginning of the maze. The magnets on the stick and the button will attract through the plate. The popsicle stick will allow you to control the movements of the button through the maze!



Now that you have made your first maze, see if you can make a harder one. Keep it up and you'll soon be an expert maze solver!

See other side

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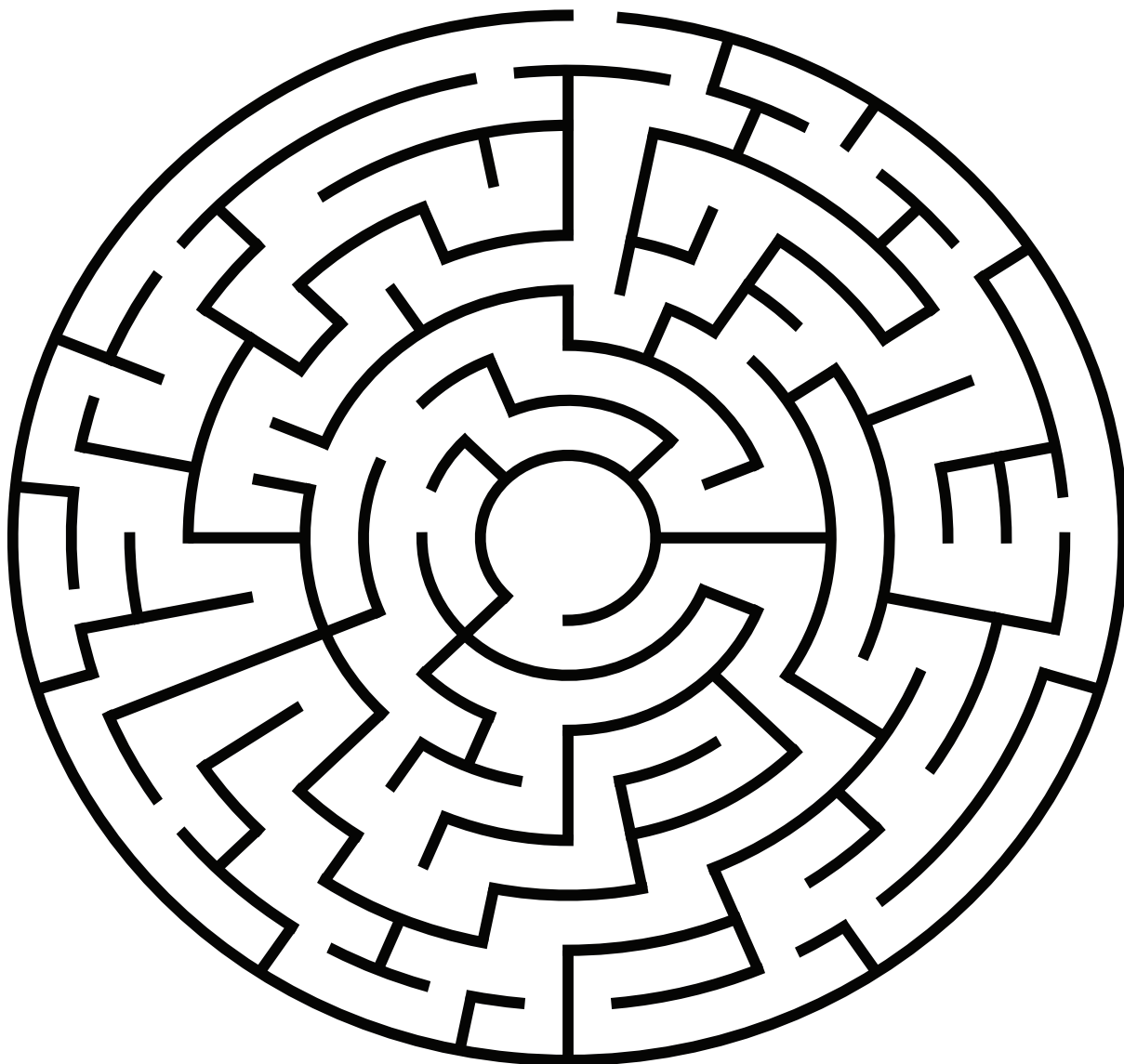


Table Talk

1. Do you think the magnets would work with something thicker than a paper plate?
2. What other objects do magnets attract?

