

Name: _____

Date: _____



GENIUSCHALLENGE

MAGNETS & STATIC ELECTRICITY

1. What are the invisible lines revealed by the iron filings surrounding a magnet called?

2. True or false: all metals are attracted to magnets. _____

3. Which of these materials is magnetic?

- a. banana b. iron c. plastic d. aluminum

4. What type of metal is NOT attracted to magnets? _____

5. If OPPOSITE poles (N and S) of a magnet are placed near each other, what happens?

6. Why can neodymium magnets be dangerous?

7. Which of these items did Dr. Jeff not use when building an electromagnet?

- a. magnet b. wire c. nail d. battery

8. True or false: magnets need to touch something to apply a force. _____

9. What keeps the plastic floating above Zoe's balloon? _____

10. Fill in the blank using the word **same** or **opposite**.

a. Zoe's hair flies apart because each hair has the _____ charge.

b. Balloons stick to Izzy because Izzy and the balloons have the _____ charge.