

Team Name: _____ Date: _____

Names: _____ and _____

Magnetic Attraction Station Worksheet

Station 1: Ring Magnets

Draw a picture of the two ring magnets on the pencil. What happens when you move the lower ring magnet?

Station 2: Magnetic Separation

Why can you separate the mixtures using a magnet?

Station 3: Magnetic Pole Identification

Which is the N pole of the large bar magnet, pole 1 or 2?

Station 4: Magnetic Loops

Draw a picture below showing the shape of the magnetic fields for two different magnets.

Station 5: Magnetic Prediction

Before you test the objects:

- List in the table below all the objects you are testing.
- If you predict an object will be attracted to the magnet, write YES in the Prediction column. Otherwise, write NO in the Prediction column.

After you test each object:

- If the object is strongly attracted to the magnet write STRONG in the Result column.
- If the object is weakly attracted to the magnet, write WEAK in the Result column.
- If it is not attracted to the magnet at all, write NO in the Result column.

Test Object	Attraction Prediction	Result
	Yes or No	Strong, Weak or No

Station 6: Make Your Own Magnet

How many paper clips did you pick up with the nail the first time you magnetized it?

How can you tell when the nail is demagnetized?

How can you make the nail a stronger magnet using only the materials at the station?
Describe how you would test your idea.