**Vocabulary**

**magnet** a material that attracts steel, iron, cobalt, and nickel

Magnets come in many shapes and sizes. Materials that contain iron, steel, nickel, and cobalt are attracted to, or pulled toward, a magnet. Magnets also attract the mineral magnetite and other magnets. Materials that are attracted to a magnet are described as magnetic.

**magnetite** a mineral that is naturally magnetic

Magnetite contains iron and is a weak magnet. Early explorers used magnetite to find north. Magnetite is sometimes called lodestone.
Testing for Magnetic Attraction

1. Read the list of materials in the table. Predict which materials the magnet will attract. Write Yes or No in the Prediction column.

<table>
<thead>
<tr>
<th>Metal Sample</th>
<th>Prediction Attracted to Magnet?</th>
<th>Test Result Attracted to Magnet?</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminum foil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>brass brad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(copper and zinc) penny</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iron rivet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>magnetite rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>silver</td>
<td></td>
<td></td>
</tr>
<tr>
<td>steel nail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>steel paper clip</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Test each material with the magnet. In the Test Result column, write Yes if the material is attracted to the magnet. Write No if the material is not attracted to the magnet.

Conclusions

3. Which metals were attracted to the magnet?

________________________________________________________________________

4. What metals were not attracted to the magnet?

________________________________________________________________________
Section 1 Assessment

Vocabulary
1. What is a magnet?

Magnetic Attraction
2. A student uses a magnet to find out which nail is iron and which nail is aluminum. Which drawing shows the aluminum nail? Circle your answer.

Identifying Magnetic Materials
Test each material in the tray to see if it is attracted to the magnet. Write Yes next to each material the magnet attracts. Write No next to each material the magnet does not attract.
3. _______________ aluminum foil
4. _______________ brass brad
5. _______________ rivet
6. _______________ paper clip

7. Which objects contain iron, steel, cobalt, or nickel?