

Magnet

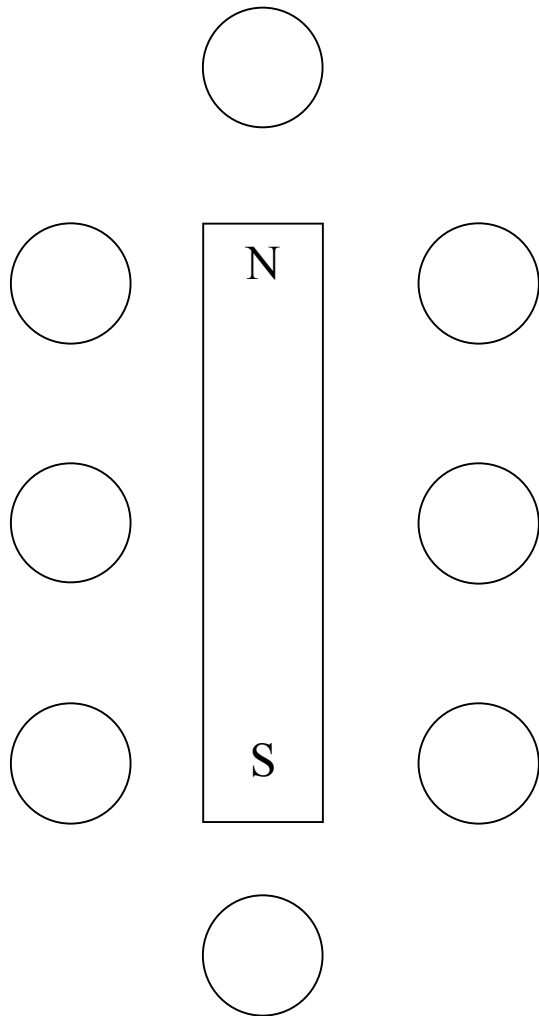
Exploration

Booklet

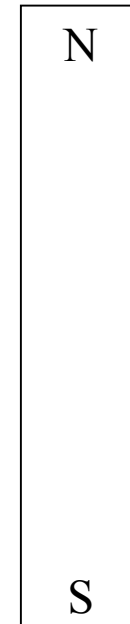
Properties of Magnets

1. Like ends repel each other.
2. Opposite ends attract each other.
3. All magnets are compasses.
4. Magnets have a magnetic field
5. Magnets have a magnetic force.
6. Magnets can either be natural, temporary, or permanent.
7. Magnetic forces can go through solid objects.
8. There is a so-called magnet in the earth that causes a magnetic field around the earth.
9. Electricity can cause a nail to become a temporary magnet.
10. Motors run because of magnets inside them.

**Discovering Magnetic Fields with a
Compass**



**Discovering Magnetic Fields with Iron
Filings**



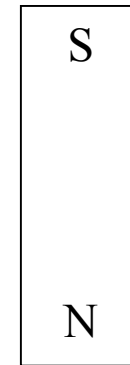
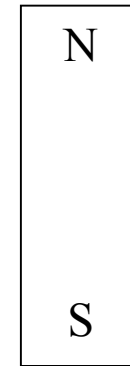
**Draw what the iron filings look like
on the bar magnet.**

Discovering Magnetic Fields on Magnets
with Opposite Ends



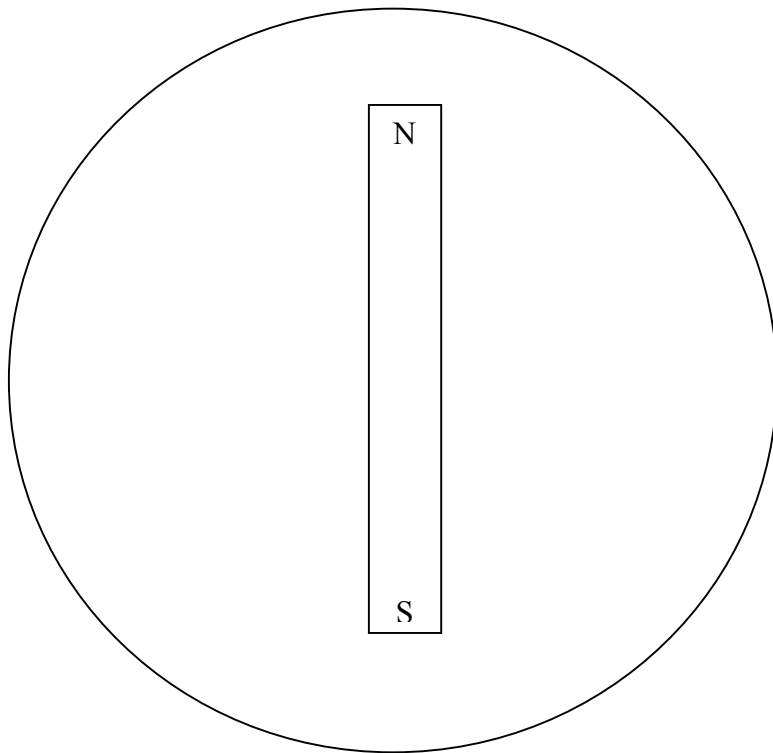
**Draw what the iron filings look like
on the bar magnets.**

Discovering Magnetic Fields on Magnets
with Same Ends



**Draw what the iron filings look like
on the bar magnets.**

Discovering Magnetic Fields
On the Earth



Draw what the magnetic field looks like on the earth.

Questions About Our Activity

1. What caused the compass needle to move as it went around the bar magnet?

2. How did the iron filings act like the compass needle?

3. What difference did you see between the bar magnets that attracted and the bar magnets that repelled?
