1. What is a magnet? A magnet is any material that attracts iron and materials that contain iron.

2. What are three properties of a magnet? A magnet attracts materials that contain iron, attracts or repels other magnets, and has one pole that points north when allowed to swing freely.

3. What will happen to a bar magnet that is allowed to swing freely? The bar magnet will align itself in a north-south direction.

4. What area of a magnet has the strongest magnetic effect? A magnet’s poles have the strongest magnetic effect.

5. How does a magnet’s north pole behave when brought near another north pole? Near a magnet’s south pole? Two magnetic north poles repel each other. A magnetic north and a magnetic south pole attract each other.

6. How can the behavior of two magnets show the presence of a magnetic force? When unlike magnetic poles of two magnets are brought near one another, a force of attraction will tend to pull them together. When magnetic poles that are alike are brought near each other, a force of repulsion will tend to push them apart.

7. What is a magnetic field? A magnetic field is the area of magnetic force around a magnet.

8. Look at Figure. What is the shape of the magnetic field? The shape of a magnetic field resembles two side-by-side ovals, with the bar magnet lying along the long sides of the ovals where they contact each other.