

## Magnetism Cloze

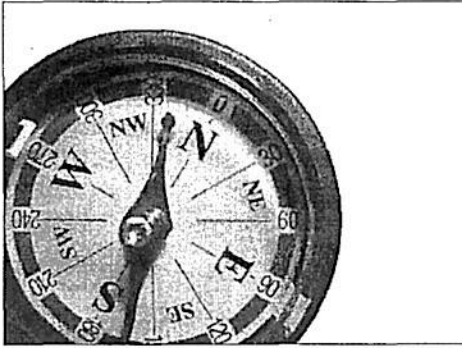
Fill in the blanks with words from the box.

attract  
force  
north

aurora borealis  
iron  
poles

compass  
lines  
repel

field  
nickel  
stronger



A compass uses the Earth's magnetic field to point to north.

Magnetism is a force that has the ability to push or pull some objects such as metals like nickel or iron.

Magnets have two ends called poles.

When you bring two magnets together, like poles repel each other and opposite poles attract.

If you sprinkle iron filings around a magnet, they will form lines showing the direction of the magnetic force. These lines of magnetic force are called a magnetic field (lines). The closer the lines are together the stronger the force.

The Earth generates a magnetic field as well. For centuries, sailors have used this magnetic field to help them find north on cloudy days and nights using a tool called a Compass. The Earth's magnetic field also causes one of the wonders of nature, the aurora borealis, which is produced when charged particles in space are pulled into the Earth's atmosphere by the Earth's magnetic field.



The Earth's magnetic field causes the aurora borealis.

