

# Magnets



Name . _____		
What I <u>K</u> now	What I <u>W</u> ant to Know	What I <u>L</u> earn
<p>N/S pole</p> <p>pick up metal</p> <ul style="list-style-type: none"> <li>- made of small pieces</li> <li>- same ends push away</li> <li>- opposite ends attract</li> <li>- earth is a magnet</li> <li>- usually red and silver</li> </ul>	<p>how do they work?</p> <p>Did someone invent</p> <p>How does earth work as a magnet?</p> <p>What are they made of?</p> <p>How do they attract metal?</p> <p>can you magnetize something?</p>	

Pole - magnetic end

magnetic field - magnetic force

electromagnet - Magnet made  
with electric current

electric motor - motor that changes  
electric energy to mechanical energy

generator - changes mech.  
energy to electric

## What is an electromagnet?

- magnet
- attracts metal
- not a rock
- created w/ electric current



alternating  
generator

direct current  
turbine  
Wind, ~~the~~ steam, water

transformer

wires

decreases  
voltage

metal

you  
overload  
fire

Observation and  
prediction

Increase the current

Increase the coils