



Electricity: Circuits

28. Name the two types of circuits.

a. _____ b. _____

29. Which type of circuit is used the most in homes? _____

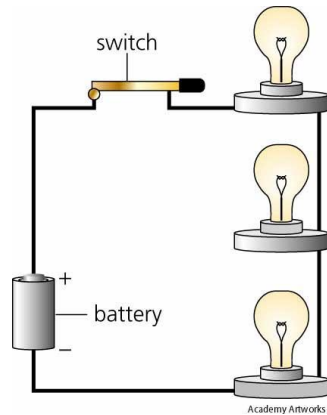
30. Explain why this type is used (from question 29)

31. What type of circuit is in the diagram?

32. What is the purpose of the battery?

33. What is the purpose of the switch?

34. How can you tell if the switch is open?



Magnetism

35. Look at the picture. Will these magnets repel or attract? How do you know?



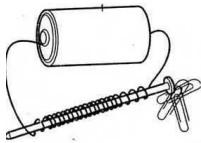
36. How is an electromagnet like a bar magnet?

a. They are both made of wire b. They both need electricity to work.
c. They both have a N and S pole. d. They are both permanent magnets.

37. Which phrase best describes an electromagnet?

a. A bar of iron and a length of wire b. A coil of wire
b. Pieces of iron mixed with pieces of wire d. An iron core with a current-carrying wire coiled around it

38. Circle the picture of an electromagnet.



Benchmark 2 Study Guide

CHEMISTRY: ATOMIC STRUCTURE

1. Name three subatomic particles and give their charges:

a. _____

b. _____

c. _____

2. Put the following terms in order from largest to smallest:

Sugar molecule, tree, leaf, hydrogen atom, limb

3. What particles are in the nucleus of an atom? _____

4. How many neutrons does an atom of Boron have? Atomic number = 5 Atomic mass = 10.811 _____

5. If the Atomic number is 11 for Sodium, we know that it has _____ Protons and _____.

Chemistry: States of Matter



6. Name the four states of matter.

a. _____

c. _____

b. _____

d. _____

7. Think about a popsicle. What causes it to change from one state of matter to another? _____

8. What process describes a solid changing into a liquid? _____

9. What process describes a liquid changing into a solid? _____