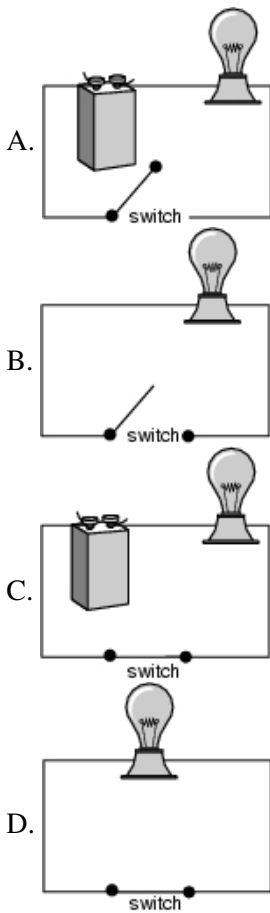


Name: _____

Date: _____

1. Which circuit would turn the light bulb on?



2. Which item would conduct electricity?

- A. a glass cup
- B. a chicken feather
- C. a plastic straw
- D. a metal fork

3. Joe and Jill made a volcano using baking soda and vinegar. When they put them together the volcano foamed and bubbled. This is an example of

- A. a weight change.
- B. a chemical change.
- C. a physical change.
- D. a density change.

4. Which term refers to the flow of electrical charges?

- A. conductance
 - B. resistance
 - C. current
 - D. energy
-

5.

Use the list below to answer this question.

- plastic
- rubber
- glass
- paper

Which name applies to these materials because of their electrical properties?

- A. connectors
 - B. regulators
 - C. conductors
 - D. insulators
-

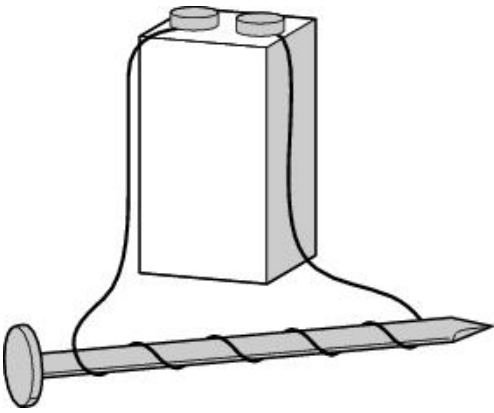
6. When water in an open pan is heated for a long time, it becomes

- A. a solid.
 - B. a vacuum.
 - C. a gas.
 - D. dew.
-

7. Dana put a cup of orange juice in the freezer to make it into an ice pop. This is an example of a

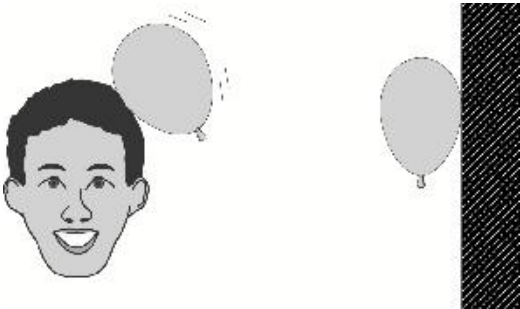
- A. liquid changing to a solid.
 - B. gas changing to a liquid.
 - C. solid changing to a liquid.
 - D. liquid changing to a gas.
-

8. What is required for this electromagnet to work?



- A. The nail must already be a magnet.
 - B. The battery must provide electricity.
 - C. The wire must be coated with plastic.
 - D. The coil must be made of magnetic wire.
-

9. Use the pictures below to answer this question.



Jerome rubs a balloon against his hair. Then he puts the balloon on the wall. It stays there. The balloon sticks to the wall because of

- A. static electricity.
 - B. magnetism.
 - C. heat energy.
 - D. power.
-

10. Kim puts an ice cube in a beaker and it melts. This is a good example of

- A. a physical change.
 - B. a chemical change.
 - C. an experiment.
 - D. an analysis.
-

11. Wanda's dad wired new lights for her playroom. When he thought everything was connected correctly, he turned on the switch and nothing happened. What could be the problem?

- A. He put too many lights and switches in the circuit.
 - B. He needed to connect more batteries to the circuit
 - C. He made a mistake that caused an open circuit.
 - D. He should have wired the circuit in parallel.
-

12. Toni's class grows sugar crystals. Her teacher asks each student to sketch the shape of the sugar crystals. What will help Toni see the shape of the crystals?

- A. a satellite
 - B. a telescope
 - C. a magnifying glass
 - D. a pair of binoculars
-

13. Iron is most likely to rust when it is

- A. damp.
 - B. dry.
 - C. painted.
 - D. covered with grease.
-

14.

Use the table below to answer this question.

Mineral	Vinegar Drops Produce Bubbles
limestone	yes
sandstone	probably not
granite	no
gneiss	no

Vinegar is an acid that bubbles when it interacts with calcite. Which mineral contains calcite?

- A. limestone
- B. sandstone
- C. granite
- D. gneiss

15. To have an electric current when using batteries, there MUST be a

- A. complete circuit.
 - B. switch.
 - C. lightbulb.
 - D. motor.
-

16. Why is a microscope needed to view cells?

- A. to separate cells from each other
 - B. to make cells look bigger than they are
 - C. to make cells look smaller than they are
 - D. to hold the cells still so they can be seen
-

17. Which substance is made by people?

- A. wood
 - B. oxygen
 - C. copper
 - D. plastic
-

18. Billy and Sarah wanted to use their electromagnet to see if the battery still had enough power left for future experiments. Which material should they use for this test?

- A. a steel paper clip
 - B. a glass test tube
 - C. a piece of cloth
 - D. a plastic spoon
-

19. David added a little baking soda to a beaker that contained vinegar. Bubbles started coming from the mixture as a gas was released. The gas was evidence that

- A. the mixture was starting to boil.
 - B. the air in the flask contracted.
 - C. a chemical reaction took place.
 - D. the vinegar and baking soda expanded.
-

20. The plastic coating around an electric cord is used to

- A. help the electricity move through the wires.
 - B. stop the electricity from shocking you.
 - C. cover the wires so the cord looks pretty.
 - D. use less wire so the cord costs less.
-

21. Plastic, wood, and iron are ALL made of

- A. energy.
 - B. plant or animal cells.
 - C. carbon molecules.
 - D. atoms.
-

22. A chemical change occurs when

- A. a piece of cloth is cut.
 - B. a candle burns.
 - C. a cup breaks.
 - D. a piece of chalk falls apart.
-

23. What happens when a piece of wood burns?

- A. A physical change takes place.
 - B. A chemical change takes place.
 - C. The wood loses its gravity.
 - D. The wood loses its inertia.
-

24. Which is an example of current electricity?

- A. a balloon sticking to a wall
 - B. a lamp lighting a room
 - C. hair standing up as a comb passes over it
 - D. clothes sticking together after they come out of the dryer
-

25. William put a sugar cube in a cup of hot water. After a period of time, what happened to the sugar cube?

- A. It dissolved.
- B. It stayed on the bottom of the cup.
- C. It evaporated.
- D. It changed color.

Answer Key

1. C)
2. D) a metal fork
3. B) a chemical change.
4. C) current
5. D) insulators
6. C) a gas.
7. A) liquid changing to a solid.
8. B) The battery must provide electricity.
9. A) static electricity.
10. A) a physical change.
11. C) He made a mistake that caused an open circuit.
12. C) a magnifying glass
13. A) damp.
14. A) limestone
15. A) complete circuit.
16. B) to make cells look bigger than they are
17. D) plastic
18. A) a steel paper clip
19. C) a chemical reaction took place.
20. B) stop the electricity from shocking you.
21. D) atoms.

22. B) a candle burns.

23. B) A chemical change takes place.

24. B) a lamp lighting a room

25. A) It dissolved.