

SCA Science 6 – Study Guide

Chapter 8

Name: _____

I. Fill in the Blank: Write the correct answer in the blank

attract	electromagnetic	generator	magnet	repel
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- _____ 1. uses a magnet to convert motion into electrical energy
- _____ 2. what opposite poles do when brought near each other
- _____ 3. coil of wire with a core attached to an electrical source
- _____ 4. any material that has the ability to attract iron
- _____ 5. what the same poles do when brought near each other

binary number system	electrical signal	integrated circuit	RAM	ROM
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- _____ 6. an electric current that carries information
- _____ 7. a very small circuit with all its components in a single unit
- _____ 8. a code used by electronic devices to communicate information
- _____ 9. part of a computer that stores facts temporarily
- _____ 10. part of a computer that contains the built-in memory and programs

- _____ 11. a measurement of the amount of electrical push, or force, in a circuit
- _____ 12. the measurement of power, or how fast work is done
- _____ 13. a unit that measures how much current flows through a given part of a circuit in one second
- _____ 14. a liquid or paste substance that conducts electricity
- _____ 15. a power source containing one or more electric cells

II. Multiple Choice: Write the letter of the correct answer in the blank.

- _____ 16. A material that does not allow electricity to flow through it
- A. insulator B. resistor C. conductor
- _____ 17. A circuit that has multiple paths through which electricity can flow
- A. strand B. parallel C. series
- _____ 18. A circuit that has only one path through which electricity can flow.
- A. parallel B. one-way C. series
- _____ 19. a material that reduces the flow of electricity
- A. conductor B. resistor C. parallel
- _____ 20. a material that allows electricity to flow through it easily
- A. compound B. conductor C. insulator

III. True – False: Write “T” for True or “F” for False. If the statement is false correct the term needed for it to be true.

_____ 21. Static electricity occurs when a circuit and a power source allow electrons to move

_____ 22. Current electricity is produced when charges build up on the surface of an object

_____ 23. Plastic, wood, and glass are good insulators

_____ 24. A switch is a conductor that can be moved to bridge the gap or not bridge the gap in a circuit

_____ 25. Magnetic force is strongest at the middle of the magnet

_____ 26. The area of magnetic force around a magnet is called the magnetic field

_____ 27. Integrated circuits signal information by opening and closing electrical circuits in sequence

_____ 28. The brain of the computer that tells the other parts of the computer what to do is called the central processing unit (CPU)