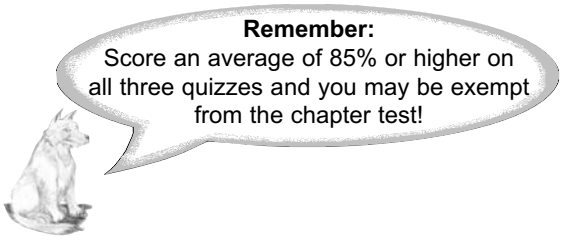
SECTION QUIZ 3-3

Date: _____ Grade: _____





Congratulations! You have completed this section!

Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.0 points.

Matching: Choices may be used more than once.

1. _____ moving a lawn mower
2. _____ a stretched rubber band
3. _____ a released rubber band
4. _____ a ball held in your hand above ground level
5. _____ a ball released from your hand
6. _____ a ball bouncing into another ball, causing the second ball to move

(a) demonstrating potential energy
(b) demonstrating kinetic energy
(c) demonstrating the transferring of kinetic energy

Multiple Choice: Choose the correct answer.

7. When an object moves, _____ is being done.
   (a) friction (b) mathematics (c) work (d) gravity

8. Energy includes: _____
   _____.
   (a) newton-meters, gram-inches and pound-miles
   (b) electrical, nuclear and chemical energy, light, heat and sound
   (c) work, movement, force, calculation and multiplication
   (d) none of these

9. The water table of an area is measured by: _____.
   (a) top level of ground water in an aquifer
   (b) layers of soil the water passed before forming an aquifer
   (c) depth of the water in the aquifer
   (d) depth of the well compared to the depth of the aquifer

10. The rate at which a substance dissolves is influenced by: _____.
    (a) Gases, liquids and solids
    (b) Tears, perspiration and urine
    (c) Particle size, stirring or shaking and temperature
    (d) Oxygen, carbon dioxide and nitrogen

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11. Heat moves in which direction? _____

_____

(a) from an area of lesser concentration to an area of greater concentration
(b) from an area of greater concentration to an area of lesser concentration
(c) from an area of less action to an area of much action
(d) only a and c

12. Perspiration benefits humans in what way? _____

_____

(a) It raises the body temperature on cold days.
(b) It lowers the body temperature by evaporating.
(c) It causes involuntary muscle movement.
(d) all of these

13. Shivering benefits humans in what way? _____

_____

(a) It produces heat by involuntary muscle movement.
(b) It disrupts the perspiration function.
(c) It causes fatigue, dizziness and cramping.

14. What three temperature extremes can damage the human body? _____

_____

(a) shivering, perspiring and cramping
(b) heatstroke, heat exhaustion and hypothermia
(c) recovery with little or no damage, recovery with some damage, no recovery

Matching:

15. _____ solution
16. _____ solute
17. _____ solvent
18. _____ diluted solution
19. _____ concentrated solution
20. _____ saturated solution

(a) the substance which dissolves inside another substance (the smaller amount)
(b) the combination of two substances in such a way that they are inseparable
(c) the substance in which another substance is dissolved (the larger amount)
(d) the solvent cannot dissolve anymore of the solute
(e) a large amount of solute is placed in a solvent
(f) a small amount of solute is placed in a very large amount of solvent

Use the formula for work to answer questions #21-23.

You lift 2 meters high a bowling ball that weighs 10 newtons.
On the first line, write the formula for work.
On the second line, place the numbers given into the formula.
On the third line, supply the answer to the problem.

21. W = (formula) _____
22. W = _____
23. W = _____

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SECTION QUIZ 3-3

For questions #24-26, number in order (1-3) the steps to the formation of an aquifer.

24. _____ The ground water reaches an impermeable layer of rock or soil or reaches pores already filled with water.

25. _____ Rainfall soaks into the ground.

26. _____ Ground water seeps through permeable soil.

True or False: Write the correct answer.

27. _____ Solutions can be made from gases, liquids or solids.

28. _____ In the formula for Work, W = work, F = force and d = distance.

29. _____ Physical and chemical changes can transform potential energy into kinetic energy.

30. _____ Gravity gives an object above ground level potential energy.

31. _____ During trauma, the cells in your brain and body shut down and go into shock.

Fill in the blank by using words from the WORD BANK.

WORD BANK

energy	heat	friction
potential	concussion	femoral
kinetic	brachial	temperature
96.8	98.6	runoff
	ground	

32. _____ water does not soak into the ground; rather it joins rivers.

33. A _____ is a temporary disturbance of the brain's ability to function and can cause a loss of memory of events just before and after the injury.

34. The _____ artery is found in the thigh.

35. The measurement of heat is indicated as _____.

36. The energy of motion is called _____ energy.

37. Energy not yet in motion is called _____ energy.

38. The three basic methods of transferring _____ are conduction, convection and radiation.

39. The average body temperature for most humans is _____ degrees F.

40. _____ is defined as the ability to cause change.

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SECTION QUIZ 3-3

Matching:

41. _____ radiation (a) the movement of heat through a solid
42. _____ convection (b) the movement of heat through currents of liquids and gases
43. _____ conduction (c) the movement of heat through electromagnetic waves

For questions 44-46, complete the Table for temperatures.

Measure/Scale Chart

		Fahrenheit	Celsius	Kelvin
44.	Boiling	_____	100º	373º
45/46.	Freezing	_____	_____	273º
	Absolute Zero	-459º	-273º	0º

Complete the Life Principles.

47. *"You will be a better worker if you _____ the work you do."*
48. *"Things are not always as they _____."*
49. *"Determine to be part of the _____, not the problem."*
50. *"_____ response to pressure can make you; thoughtless response can break you."*

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