ACTIVITY ANSWER KEY

Chapter 3, Section 3

Check your answers from the Answer Key.
Correct all errors, then complete your next goal.



Lesson 11: *Physics*

Work

1. (a) True
2. work
3. Force
4. (any order) force, motion, direction
5. (a) True
6. (b) False
7. (a) True
8. (b) False
9. $W = F \times d$
10. work done, force, distance
11. force, distance
12. newton-meter (Nm)
13. (any order) electrical, nuclear, chemical; (any order) light, heat, sound
14. change
15. (any order) kinetic, potential
16. Kinetic
17. (a) True
18. stored
19. (any order) physical, chemical
20. potential
21. gravity
22. (a) kinetic
23. (a) kinetic
24. (b) potential
25. (a) kinetic
26. (d) neither of these
27. (b) potential
28. (a) kinetic
29. (a) kinetic
30. (b) contrasting (different) conditions
31. work
32. Energy
33. (a) finally saved enough money for the ski trip
34. (c) paying with a ten-dollar bill
35. *"You will be a better worker if you enjoy the work you do."*
36. 8Nm
37. 5Nm
38. 6Nm
39. 12Nm



Lesson 12: *Geology*

Beneath the Surface

1. (c) inform him that he had used counterfeit money
2. (c) impurities
3. (c) both of these
4. runoff
5. streams, rivers; ocean
6. (order, wording may vary) to slow streams and rivers, to provide reservoirs of fresh water
7. (d) the water cannot be used for humans
8. ground water
9. river
10. Pores
11. Permeable
12. (a) True
13. (a) True
14. (d) The more permeable soil is, the faster water seeps into the ground.
15. _b_ light, sandy soil
16. _c_ peat
17. _a_ clay

©Copyright 2005, Paradigm Accelerated Curriculum

18. (order, wording may vary) until the water reaches an impermeable layer, until the water reaches pores already filled with water
19. (c) impermeable soil or rock stopping the ground water seepage, causing the ground water to fill the pores of the soil above the impermeable layer
20. (a) rely upon wells and aquifers for water
21. (c) Water wells are drilled into aquifers. Water from the aquifer flows into the well and is pumped back to the top.
22. (a) top level of ground water in an aquifer
23. (c) below the water table
24. (a) drop
25. (a) water table, (b) permeable soil, (or sand), (c) impermeable soil (or clay), (d) aquifer
26. Pollutants
27. (d) saltwater
28. (c) associated with Mr. Allen
29. *"Things are not always as they appear."*



Lesson 13: *Chemistry*

Solutions

1. (c) remains of counterfeit bills
2. (a) True
3. (a) True
4. (b) False
5. (b) solutions
6. (b) solute
7. (c) solvent
8. (c) solvent
9. Water
10. (b) Water carries dissolved nutrients to our cells; and waste products away from our cells.
11. (any order) tears, perspiration, urine
12. (any order) gases, liquids, solids
13. are spread uniformly throughout the solvent
14. oxygen and other gases, nitrogen
15. carbon dioxide, water
16. zinc, copper
17. (any order) particle size, stirring or shaking, temperature
18. _e_, _f_ gas in liquid
19. _b_ sugar in hot water
20. _a_, _c_ spoonful of loose sugar . . . .
21. _d_ sugar cube
22. _c_ dilute solution
23. _a_ concentrated solution
24. _b_ saturated solution
25. *"Determine to be part of the solution, not the problem."*



Lesson 14: *Health*

Pressure

1. (d) were kidnapped and dumped in the woods to die
2. ___ shut down . . .
   _X_ rush to organize . . .
   ___ cause a lack . . .
   _X_ adjust automatically . . .
3. skull
4. concussion
5. memory
6. (c) whether or not to move the victim
7. (a) breathing
8. (b) Tilt back the victim's head and lift the chin.
9. (b) applying direct pressure to the wound
10. (a) add additional layers of cloth over the first
11. _c_ spurting bright red blood
12. _a_ steadily flowing dark red blood
13. _b_ pressure-point technique
14. (a) thigh
15. (b) upper arm
16. (a) True
17. (b) False
18. (a) True
19. (a) recovered from the fall, took stock of their resources and planned a solution
20. *"Wise response to pressure can make you; thoughtless response can break you."*

©Copyright 2005, Paradigm Accelerated Curriculum



Lesson 15: *Physics*

Temperature

1. (b) behind a group of boulders
2. (b) temperature
3. (c) Kelvin
4. (a) Fahrenheit
5. (b) Celsius
6. (a) Fahrenheit
7. (a) 212 degrees
8. (c) 0 degrees
9. environment
10. (b) from an area of greater concentration to an area of lesser concentration
11. (any order) conduction, convection, radiation
12. molecular action
13. conductors
14. insulators
15. (b) Metal pots and pans are good choices for heating food.
16. (any order) liquids, gases
17. (a) A heater in the corner of a room can warm a whole room.
18. electromagnetic waves
19. (c) You feel heat when you stand in sunlight.
20. (a) True
21. (a) True
22. their metabolism slows down
23. (a) True
24. 98.6
25. (b) False
26. (b) False
27. _e_ shivering
28. _d_ perspiring
29. _b_ heatstroke
30. _a_ heat exhaustion
31. _c_ hypothermia
32. _h_ victim has good chance of . . . .
33. _g_ victim will recover with . . . .
34. _f_ victim will not survive
35. S-O-S
36. *"Always keep your cool, whether the heat is on or off."*

Ask for your QUIZ over Section 3.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!

©Copyright 2005, Paradigm Accelerated Curriculum



©Copyright 2005, Paradigm Accelerated Curriculum