ACTIVITY ANSWER KEY

Chapter 8, Section 1

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

Lesson 1: *Compounds*
Organic Chemistry

1. mineral
2. organic
3. (b) metals and salt
4. (d) sugar and egg whites
5. (b) organic
6. (b) False
7. (a) inorganic
8. (b) inorganic
9. (d) nitrogen
10. Analysis
11. Synthesis
12. (d) Jons Jakob Berzelius
13. (b) Friedrich Wohler
14. (b) False
15. (c) ***total***
16. Chemical
17. (a) contains carbon
18. (b) H_2SO_4
19. (a) carbon
20. *"This most beautiful system [The Solar System] could only proceed from the dominion of an intelligent and powerful Being."*

Lesson 2: *Compounds*
Hydrocarbons

1. Carbon
2. 92
3. (b) carbon
4. eleven (11)
5. carbon
6. (c) hydrocarbon
7. (d) methane
8. shared
9. (a) chains
10. (c) increases
11. isobutane
12. (b) False
13. (d) C_7H_{16}
14. C_8H_{18}
15. (a) improves
16. (b) convert unburned hydrocarbons into less harmful compounds
17. (b) ***Pitch***
18. methane
19. (b) False
20. *"Imagination is more important than knowledge. Knowledge is limited. Imagination encircles the world."*

Lesson 3: *Compounds*
Saturated and Unsaturated Hydrocarbons

1. (d) highway construction
2. (a) hydrogen
3. (b) heavier
4. (b) False
5. not
6. 20 (twenty)
7. water
8. (a) True
9. Dimethyl ether
10. (a) ***alkane***
11. saturated

12. 50 (The general formula for an alkane molecule is C_nH_{2n+2} with *n* the number of carbon atoms and *2n+2* the number of hydrogen atoms: *If n = 24, then 2*24 + 2 = 50)*
13. covalent
14. unsaturated
15. two or four
16. unsaturated
17. (c) alkene
18. (c) ***polyethylene***
19. (d) polyethylene
20. *"Our doubts are traitors and make us lose the good we oft' might win by fearing to attempt."*



Lesson 4: *Compounds*
Black Gold

1. (d) C_2H_2
2. (d) acetylene with a triple bond
3. (a) carbon
4. (a) carbon
5. (a) True
6. (c) ***kerosene***
7. (d) hydrocarbons
8. rock oil
9. (b) Edwin L. Drake
10. (b) kerosene
11. (a) True
12. (d) gases
13. (c) liquids
14. (a) fuel oil
15. (a) solids
16. (a) True
17. Vaseline
18. 7 asphalt
19. 4 fuel oils
20. 2 gasoline
21. 3 kerosene
22. 5 lubricating oils and greases
23. 1 natural gas
24. 6 petroleum jelly
25. *"You will never possess what you are unwilling to pursue."*



Lesson 5: *Compounds*
Benzene

1. benzene
2. C_6H_6
3. unsaturated
4. (b) active
5. (c) less
6. (a) True
7. benzene
8. (d) ring
9. (a) True
10. (c) about half
11. (c) have common side
12. (d) the NH_2 group
13. aniline
14. synthetic
15. (b) False
16. (order within categories may vary)

Natural	Synthetic
cotton shirt	polyester pants
wool socks	nylon hose
leather shoes	neoprene shoes
silk blouse	
linen skirt	

17. (b) False
18. synthetic
19. Tyrian
20. (b) False
21. *"Little minds are tamed and subdued by misfortune, but great minds rise above them."*

Ask for your QUIZ over Section 1.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!