Name:	Date:
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Chapter 1 – Introduction to Chemistry

Chapter 1: 1, 3, 5, 8, 9, 10, 12 - 19, 21, 22, 30, 36 (18 total)

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Section	Review	, .	ı
Decuon		1.0	L

1. Matc	the the	numbered terms in the rig	ght colun	nn with the lettered terms in the left column.
	a.	Technology	1.	Life
	b.	Organic chemistry	2.	Matter and its changes
		D' 1 ' 4	2	0.1

c. Biochemistry 3. Carbon
d. Chemistry 4. Applications
e. Analytical chemistry 5. Composition

3. Explain the difference between *pure* and *applied* chemistry.

Section Review 1.2

- 5. Name at least three areas of science in which chemistry plays an important role.
 - a.
 - b.
 - c.

Section Review 1.3

8. Describe the steps involved in the scientific method. Provide an example.

9. Distinguish between a theory, a hypothesis, and a scientific law.

10. Why should a hypothesis be developed <i>before</i> experiments take place?						
Section Review 1.4						
12. Explain why it is important to study chemistry every day.						
13. Why is chemistry best studied with a pencil in hand?						
14. Explain the value of discussing chemis	stry with others.					
year.	or studying chemistry will be throughout the upcoming					
Chapter 1 Review						
16. Define <i>chemistry</i> . What is <i>matter</i> ? 1.1						
17. Describe the difference between chemi	nistry and chemical technology. 1.1					
18. Match each numbered term with a letter	tered term. 1.1					
a. Physical chemistry b. Organic chemistry	 Composition Life 					
c. Analytical chemistry	3. Carbon					
d. Inorganic chemistry e. Biochemistry	4. Behavior5. Without carbon					

19. Refer to p	problem 19, in your Chapter Review, t	then match each numbered photograph with		
the lettered fi	eld of chemistry it best represents. 1.2	2		
a. b. c. d. e. f.	Materials science Energy Medicine and biotechnology Agriculture Environment Astronomy and space	1. 2. 3. 4. 5. 6.		
21. Why is th	e ozone layer surrounding Earth impo	ortant? 1.2		
22. Provide a	t least two benefits of replacing some	of the steel in automobiles with plastics. 1.2		
a.				
b.				
30. You have a sore throat, so you go to the doctor, who examines you and says she thinks you may have strep throat. She takes a sample to test for strep bacteria. What parts of the scientific method is the doctor applying?				
36. Criticize	the statement, "Theories are proven by	y experiments."		