CHEMISTRY FAR AND WIDE

Section Review

Objectives

- Identify some areas of research affected by chemistry and describe examples of research in chemistry
- Distinguish between macroscopic and microscopic views

Vocabulary

macroscopic

biotechnology

microscopic

pollutant

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

Chemists design materials to fit1 needs. Objects that	1	
can be seen only under magnification are part of the 2 world.	2	
Chemistry is important in the production and conservation		
of3 One of the easiest ways to4 energy is through		
the use of insulation. New kinds of 5 for the storage of energy		
are also being developed.		
Chemistry plays a role in efforts to increase the6 of		
farmland and to protect from insect pests. The trend is		
toward chemicals that treat8 problems.		
•		
chemistry. For example, a robotic vehicle delivered to the surface	_	
of Mars can determine the of Mars rocks.		

Part B True-False

10. World energy demand is decreasing.

Classify each of these statements as always true, AT; sometimes true, ST; or never true, NT.

- **9.** Insulin can be produced when genes from bacteria are inserted into humans.

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Name	Date	Class
11. Some hum	an genes have been inserted into b	acteria.
	of lead in the blood can permanen growing child.	tly damage the nervous
Part C Matching	J	
Match each description ir	a Column B to the correct term in C	olumn A.
Column	A Column B	
13. macroscop		d in air, water, or soil that is harmful to her organisms
14. pollutant	b. describes objection	ects that can be seen only under
15. biotechnol	ogy c. applies science or processes	ce to the production of biological products
16. microscopi	c d. describes objetunaided eye	ects that are large enough to see with the
17. fossil fuels	e. determined the	ne sequence of genes in human DNA
18. Human Ge	nome Project f. materials form and animals	ned from the remains of ancient plants
Part D Question	s and Problems	
Answer the following que	stions in the space provided.	
19. Describe two ways b	iotechnology can help treat diseas	es.

10.	
20.	Name three factors that decrease crop productivity.
21.	Explain how scientists know that water once existed on the surface on Mars.