Name Date Class	Name	Date	Class
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CHAPTER 1 REVIEW

Matter and Change

S	ECTION 1
SH	ORT ANSWER Answer the following questions in the space provided.
1.	Technological development of a chemical product often
	 (a) lags behind basic research on the same substance. (b) does not involve chance discoveries. (c) is driven by curiosity. (d) is done for the sake of learning something new.
2.	The primary motivation behind basic research is to
	 (a) develop new products. (b) make money. (c) understand an environmental problem. (d) gain knowledge.
3.	Applied research is designed to
	 (a) solve a particular problem. (b) satisfy curiosity. (c) gain knowledge. (d) learn for the sake of learning.
4.	Chemistry is usually classified as
	 (a) a biological science. (b) a physical science. (c) a social science. (d) a computer science.
5.	Define the six major branches of chemistry.

			A laboratory in a major university surveys all the reactions involving bromine.
9.		b.	A pharmaceutical company explores a disease in order to produce a better medicine.
1.		с.	A scientist investigates the cause of the ozone hole to find a way to stop the loss of the ozone layer.
0		d.	A pharmaceutical company discovers a more efficient method of producing a drug.
		е.	A chemical company develops a new biodegradable plastic.
			A laboratory explores the use of ozone to inactivate
		f.	bacteria in a drinking-water system.
7.	Give examples of two different instr		bacteria in a drinking-water system.
	Give examples of two different instructions of two different instr		bacteria in a drinking-water system.
8.			bacteria in a drinking-water system.

Name	Class	Date
Assessment		

Matter and Change

Section Quiz: Chemistry Is a Physical Science

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- **1.** The study of the composition, structure, and properties of matter; the processes that matter undergoes; and the energy changes that accompany those processes best describes the science of a. biology. **b.** physics. c. astronomy. **d.** chemistry. 2. The branch of chemistry that involves the study of substances and processes occurring in living things is called a. biochemistry. **b.** organic chemistry. c. physical chemistry. **d.** theoretical chemistry. **3.** The branch of chemistry that deals with substances containing carbon is called a. biochemistry. **b.** organic chemistry. c. physical chemistry. **d.** analytical chemistry. 4. Using mathematical models and computer models to understand a chemical principle is an example of a. biochemistry. **b.** physical chemistry. c. analytical chemistry. **d.** theoretical chemistry.
 - in the field of **a.** biochemistry.
 - **b.** physical chemistry.
 - c. inorganic chemistry.
 - **d.** theoretical chemistry.

5. A team of scientists is working with living cells to determine how a

certain enzyme functions within the cells. They are most likely working

Name		Class	Date
Section	on Quiz continued		
	· · · · · · · · · · · · · · · · · · ·	nost likely studying in t ry. y.	the properties of quartz the field of
	b. an unnatural mo	chemical is e made in a laborator aterial added to foods. at has a definite com as mass and takes up	position.
	8. The goal of basic reala. find a solution tob. produce new chec. increase knowledd. discover new tech	a particular problem. emicals. lge.	
		roy the ozone layer. Th	gerants that do not release nis is best described as an
	10. Technological applicationa. occur by accidentb. degrade our qualicationc. lag far behind based have little effect.	t. ity of life. sic and applied resear	ch.