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Matter and Change

SĒ	CIION 1
НО	RT 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.
_	
_	

CTION 1 continued	
5. For each of the following to basic research, applied research	ypes of chemical investigations, determine whether the investigation earch, or technological development. More than one choice may app
	a. A laboratory in a major university surveys all the reactions involving bromine.
	b. A pharmaceutical company explores a disease in order to produce a better medicine.
	c. A scientist investigates the cause of the ozone hole find a way to stop the loss of the ozone layer.
	d. A pharmaceutical company discovers a more efficient method of producing a drug.
	e. A chemical company develops a new biodegradable plastic.
	C 4.1.
	f. A laboratory explores the use of ozone to inactivate bacteria in a drinking-water system.
Give examples of two different	A laboratory explores the use of ozone to inactivate bacteria in a drinking-water system. ent instruments routinely used in chemistry.
Give examples of two different	bacteria in a drinking-water system.
	bacteria in a drinking-water system.
	bacteria in a drinking-water system.
Give examples of two differed what are microstructures? What is a chemical?	bacteria in a drinking-water system.
What are microstructures? What is a chemical?	bacteria in a drinking-water system.
What are microstructures?	bacteria in a drinking-water system.

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CHAPTER 1 REVIEW

Matter and Change

SECTION 2

	~	imam ama								
	b.	quartz					·			•
	c.	granite								
	d.	energy d	lrink							
	e.	oil-and-	vinegar	salad dre	ssing					
<u> </u>	f.	salt					•			
	g.	rainwate	er							
				,						
				chemical	change					
	. с.	metal ru	sting							
· · · · · · · · · · · · · · · · · · ·	d.	gas pres	sure in	reasing						i
	е.	liquid e	vaporati	.ng						•
	f.	food dig	gesting				•			
Compare a physical change	e. wi	th a chen	nical ch	ange.						
ompare a physical ename										
Market Commission Comm						•	<u></u>	18.0		
										
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	Classify each of the follow		e. oil-and- f. salt g. rainwate h. nitrogen Classify each of the following as a phys a. ice melt b. paper bu c. metal ru d. gas pres e. liquid ev f. food dig Compare a physical change with a chem	d. energy drink e. oil-and-vinegar f. salt g. rainwater h. nitrogen Classify each of the following as a physical or a a. ice melting b. paper burning c. metal rusting d. gas pressure inc e. liquid evaporati f. food digesting Compare a physical change with a chemical change	d. energy drink e. oil-and-vinegar salad dre f. salt g. rainwater h. nitrogen Classify each of the following as a physical or chemical a. ice melting b. paper burning c. metal rusting d. gas pressure increasing e. liquid evaporating f. food digesting Compare a physical change with a chemical change.	d. energy drink e. oil-and-vinegar salad dressing f. salt g. rainwater h. nitrogen Classify each of the following as a physical or chemical change. a. ice melting b. paper burning c. metal rusting d. gas pressure increasing e. liquid evaporating f. food digesting Compare a physical change with a chemical change.	d. energy drink e. oil-and-vinegar salad dressing f. salt g. rainwater h. nitrogen Classify each of the following as a physical or chemical change. a. ice melting b. paper burning c. metal rusting d. gas pressure increasing e. liquid evaporating f. food digesting Compare a physical change with a chemical change.	d. energy drink e. oil-and-vinegar salad dressing f. salt g. rainwater h. nitrogen Classify each of the following as a physical or chemical change. a. ice melting b. paper burning c. metal rusting d. gas pressure increasing e. liquid evaporating f. food digesting Compare a physical change with a chemical change.	d. energy drink e. oil-and-vinegar salad dressing f. salt g. rainwater h. nitrogen Classify each of the following as a physical or chemical change. a. ice melting b. paper burning c. metal rusting d. gas pressure increasing e. liquid evaporating f. food digesting Compare a physical change with a chemical change.	d. energy drink e. oil-and-vinegar salad dressing f. salt g. rainwater h. nitrogen Classify each of the following as a physical or chemical change. a. ice melting b. paper burning c. metal rusting d. gas pressure increasing e. liquid evaporating f. food digesting Compare a physical change with a chemical change.

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CTION 2 co	ntinued	en e		was in a special or a digital in fi		er angelen in de en
Commons	and contrast each of	the following	torma a			The second secon
		the following	terms:			
a. mass a	nd <i>matter</i>					
·				·		i
	· · · · · · · · · · · · · · · · · · ·					
b. atom a	nd compound					
	-			**************************************		
<u> </u>			······			
c. physica	al property and chem	ical property				
	A CONTRACTOR OF THE PROPERTY O					
	-					
·	to the second se				·	
d. homog	eneous mixture and	heterogeneou	s mixture			

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· · ·					······································	
	cles to represent part		diagram that co	ompares	the arrangemen	t of particles in
the solid,	liquid, and gas states	S				

•					,	
	Solid		Liquid		Gas	
			•			
. How is er	nergy involved in che	emical and ph	ysical changes	?		4
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CHAPTER 1 REVIEW

Matter and Change

SE	CION 3
SHC	ORT ANSWER Answer the following questions in the space provided.
1.	A horizontal row of elements in the periodic table is called a(n)
2.	The symbol for the element in Period 2, Group 13, is
3.	Elements that are good conductors of heat and electricity are
4.	Elements that are poor conductors of heat and electricity are
5.	A vertical column of elements in the periodic table is called a(n)
6.	The ability of a substance to be hammered or rolled into thin sheets is called
7.	Is an element that is soft and easy to cut cleanly with a knife likely to be a metal or a
	nonmetal?
8.	The elements in Group 18, which are generally unreactive, are called
9.	At room temperature, most metals are
IO.	Name three characteristics of most nonmetals.
1.	Name three characteristics of metals.
12.	Name three characteristics of most metalloids.
3.	Name two characteristics of noble gases.

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CTION 3 continue	d	saar mendeleng op gevolg government op de entre op Geografie	Section 1
	to of the come aroun in the next	odic table have in common?	and the second s
. What do elemen	is of the same group in the point		
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	•	: wy.'	
. Within the same	period of the periodic table, ho	w do the properties of elements of	close to each other
compare with th	e properties of elements far from	n each other?	
* *			
•	•	out you would like to replace one	of the alements in
the periodic tabl	le to choose a likely substitute?	as similar chemical properties. F	
<u></u>			-
V			
. What is the diff	erence between a family of eler	nents and elements in the same pe	eriod?
			*
:			
Complete the ta	able below by filling in the spac	es with correct names or symbols	
	Name of element	Symbol of element	_
4	Aluminum		
		Ca	-
		Mn	
	Nickel		-
	Potassium		-
	Cobalt		<u></u>
·	Cobait	٨٥	
		Ag	
	The state of the s	Stands a resource in African are on our personal result in a series of significant as a lower of	a new and a series of the seri
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Matter and Change

MIXED REVIEW

CLIMDT AA	JSVA/ED	Answer the	following	auestions	in	the s	pace	provided.
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	_ a. sugar	d. plastic wrap
	_ b. iron filings	e. cement sidewal
	c. granola bar	
For each type of investigues to choices: organic chemistrone branch may be appropriately	ry, analytical chemisi	appropriate branch of chemistry from the followin try, biochemistry, theoretical chemistry. More than
	a. ,	A forensic scientist uses chemistry to find information at the scene of a crime.
		A scientist uses a computer model to see how an enzyme will function.
		A professor explores the reactions that take place in a human liver.
		An oil company scientist tries to design a better gasoline.
		An anthropologist tries to find out the nature of a substance in a mummy's wrap.
		A pharmaceutical company examines the protein on the coating+ of a virus.
For each of the followin basic research, applied	ng types of chemical in research, or technology	investigations, determine whether the investigation ogical development. More than one choice may app
		A university plans to map all the genes on human chromosomes.
	b.	A research team intends to find out why a lake
		remains polluted to try to find a way to clean it up
	с.	
	с.	remains polluted to try to find a way to clean it up A science teacher looks for a solvent that will allo graffiti to be removed easily. A cancer research institute explores the chemistry of the cell.

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4.	Use the periodic table to identify the elements:	ne name, group ni	nmber, and period m	imber of the following
		a. Cl		
	Community and a community	b. Mg		
		c. W		
		d. Fe		
		e. Sn		
5	What is the difference between ex	tensive and intens	ive properties?	
	· •			
			,	· ·
6.	Consider the burning of gasoline a	and the evaporation	on of gasoline. Whic	h process represents
6.	Consider the burning of gasoline a chemical change and which represent	and the evaporation	on of gasoline. Which mange? Explain your	h process represents answer.
6.	Consider the burning of gasoline a chemical change and which repres	and the evaporationsents a physical ch	on of gasoline. Which nange? Explain your	h process represents answer.
6.	Consider the burning of gasoline a chemical change and which repres	and the evaporation sents a physical ch	on of gasoline. Whic nange? Explain your	h process represents answer.
	chemical change and which repres	sents a physical ch	nange? Explain your	answer.
	Consider the burning of gasoline a chemical change and which represent the difference between a example of each.	sents a physical ch	nange? Explain your	answer.
	Describe the difference between a	sents a physical ch	nange? Explain your	answer.
	Describe the difference between a	sents a physical ch	nange? Explain your	answer.
	Describe the difference between a	sents a physical ch	nange? Explain your	answer.