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SRI VIDYA MANDIR MATRIC HR SEC SCHOOL - PALACODE

CLASS &SEC:	
	CLASS &SEC:

CHAPTER 1: INTRODUCTION TO CHEMISTRY

Chemistry - the study of composition of matter and the changes the matter undergoes.

5 main branches of Chemistry:

- . Organic chemistry the study of things containing carbon
- Inorganic chemistry opposite of organic chem.
- Biochemistry the study of living things.
- Analytical chemistry the study of matter composition.
- · Physical chemistry the study of mechanism, rate, and energy.

Important of Chemistry

Did you know?

Chemistry is Life Chemistry...it is not just for chemists

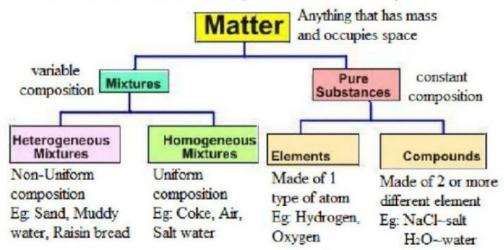
Take a good look at the thing around you. What do you see? Think about your personal and school things? What have you eaten this breakfast? These and more are products of chemistry.

Chemistry is all around us and is involved in everything we need, Do and interact with in our everyday lives!



Now, can you list the impacts of chemistry in our everyday live?

Basic Fundamental Concepts in Chemistry



Answer each of the questions below. Chemistry is the study of a. living systems the stars and planets b. all matter C. d. reactions in a test tube 2. All of the following are characteristics of matter except matter can disappear and reappear a. b. matter has mass c. matter occupies space all things are composed of matter 3. Which of the following is not a chemistry topic? the composition of ocean water what ocean fish eat b. c. the height of waves in surf d. what a surf board is made of 4. An analytical chemist is involved with studies of what penguins eat a. research to develop new rocket fuels b. c. the synthesis of new carbon compounds measurement of the amount of minerals in cereals d. 5. Making new compounds for high-speed tires is best done by the a. physical chemist organic chemist C. inorganic chemist d. biochemist 6. If you love carbon, which branch of science should you plan on studying? physical b. inorganic analytical

C.

organic

7.	Wh	ich of the following is not matter?	
	a.	Air	
	b.	Skin	
	C.	Water	
	d.	Energy	
8.	W	nich is the best definition of chemistry?	
	a.	The study of the contents of matter and its chemical properties.	
	b.	The study of chemical reactions in elements.	
	C.	The study of the contents of molecules.	
	d.	The study of ions and atoms	
9.	Car	rbon, hydrogen and oxygen are all examples of:	
	a.	cells	
	b.	subatomic particles	
	C.	elements	
	d.	molecules	
10.	The	e basic unit of matter is called a(n):	
	a.	atom	
	b.	cell	
	C.	element	
	d.	electron	

Physical and Chemical Properties



- Observed with senses
- . Determined without changing matter













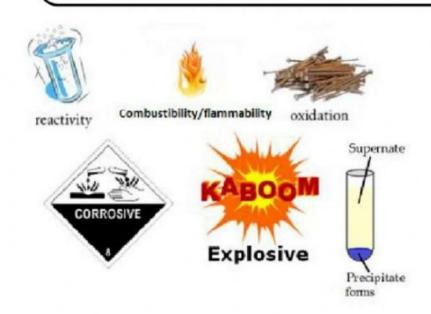








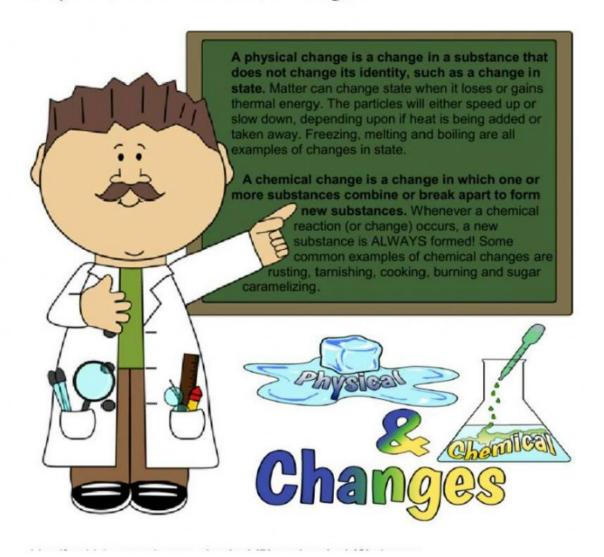
- Indicates how substance reacts with something else
- Matter will be changed into a new substance after the reaction



State whether each of the following is a physical or a chemical property.

	Description	Physical/Chemical			
1.	The sulphur is yellow.				
2.	Iron reacts with sulphur to give heat and a flame.				
3.	Baking soda with acid produces bubbles of gas.				
4.	Metal can be rolled into flat sheets.				
5.	Oxygen is colorless, odorless and tasteless.				
6.	Nitrogen dioxide gas has a choking smell.				
7.	Helium is less dense than air, so a helium balloon floats.				
8.	Wax candle burns in oxygen				
9.	An apple rots due to fungi.				
10.	Mercury metal is a liquid.				
11.	lodine gas is purple.				
12.	Hydrofluoric acid is poisonous.				
13.	Gold is shiny metal.				
14.	Cesium is the only other gold-colored metal.				
15.	Potassium burns with a purple flame to make a white powder.				
16.	Copper nitrate is a blue crystal.				
17.	Two colorless solutions mix to give a yellow solid precipitate.				
18.	Copper can be stretched into a thin wire.				
19.	Copper metal reacts with nitric acid to make a brown gas.				
20.	Salt, sodium chloride, is a white crystal that melts at 801°C.				

Physical and Chemical Changes



1.	A pencil breaking in half.		
2.	Iron turning (oxidizing) into rust.		
3.	Burning firewood to make carbon and heat.		
4.	Cutting logs to make firewood.		
5.	Mining bauxite from the ground.		
6.	Making aluminum from bauxite.		
7.	Falling leaves from a tree.		
8.	Composting leaves into soil.		
9.	The rain turned to snow.		
10.	Broke a glass on the bathroom floor.		
11.	Frying three eggs for breakfast.		
12.	An important paper caught on fire at the lab.		
13.	The bread in refrigerator got moldy.		
14.	Crushing a soda can.		
15.	Slicing bread.		
16.	Exploding fireworks.		
17.	Digesting food.		
18.	Melting butter.		
19.	Bending a paper clip.		
20.	Folding clothes.		

Identify which examples are physical (P) or chemical (C) changes.