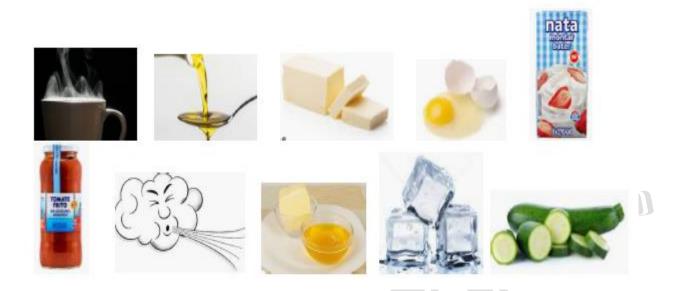
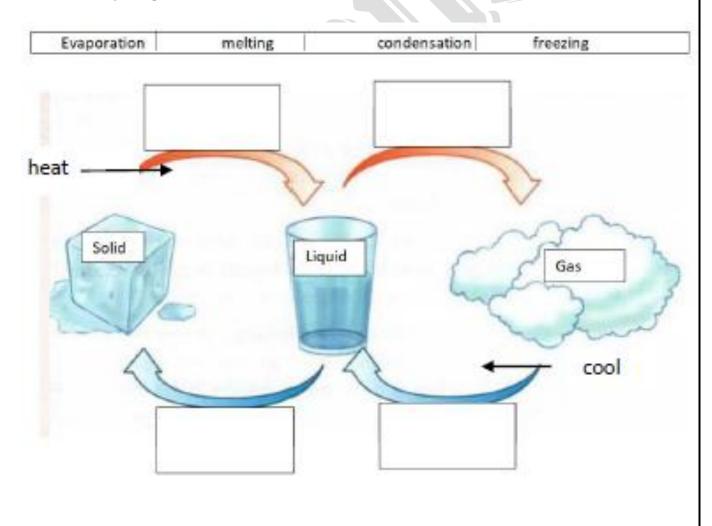
Carmel International School, Rosur

Grade – 7: Chemistry

I. Identify the states of matter for the following.



II. Identify the given inter - conversion of states of matter



III. Answer the following

1. Match the potos to the methods of separation.



2. Classify the objects in the potos into pure substances or mixtures.



3. In your own words, explain the difference between a homogeneous mixture and a heterogeneous mixture. Use the examples below as part of your explanation.

air cement salad dressing sand steel vinegar

 Look at the pictures and say if the changes to materials are physical or chemical.

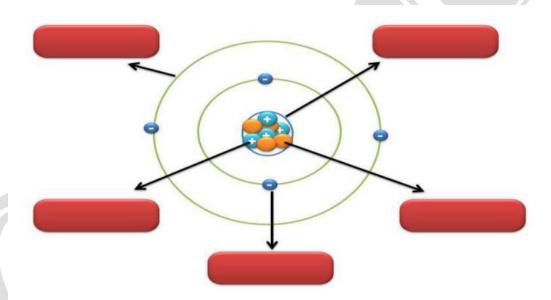


- IV. Identify the following as physical (P) or chemical (C) changes.
- 1. NaCl (Table Salt) dissolves in water.
- 2. Ag (Silver) tarnishes.
- 3. An apple is cut.

- 9. Milk sours.
- 10. Sugar dissolves in water.
- 11. Wood rots.

4. Heat changes H2O to steam.	12. Pancakes cook.				
5. Baking soda reacts to vinger.	13. Grass grows.				
6. Fe (Iron) rusts.	14. A tire is inflated.				
7. Alcohol evaporates.	15. Food is digested.				
8. Ice melts.	16. Paper towel absorbs water.				
Worksheet – 2					
A. Classify the changes involved in the	e following processes as physical or chemical changes:				
1. Photosynthesis					
2. Dissolving sugar in water					
3. Burning of coal					
4. Melting of wax					
5. Beating aluminium to make alumin	5. Beating aluminium to make aluminium foil				
6. Digestion of food					
B. State 'True' or 'False':					
1. Cutting a log of wood into pieces is a chemical change					
2. Formation of manure from leaves is a physical change3. Iron pipes coated with zinc do not get rusted easily					
5. Condensation of steam is not a chemical change.					
C. Fill in the blanks:					
1. When carbon dioxide is passed thr	rough lime water, it turns milky due to the formation of				
2. The chemical name of baking soda is					
3. Two methods by which rusting of iron can be prevented are					
4. Changes in which only Properties of a substance change are called physical					
changes.					
5. Changes in which new substances	are formed are called changes.				
6. Formation of crystals of sugar from	m a sugary syrup is a Chemical change.				
Worksheet – 3					
I. Fill in the blanks					
1. It takes the shape of the container					

	Nucleus Orbit Electron Proton Neutron						
II.	Choose the word options and drag them into the correct places:						
10.	10. Objects that take up space and have mass						
9.	These substances will have a constant appearance, colour and density throughout the sample.						
8.	. The elements are placed in specific locations because of the way they look and act.						
7.	One example of an element.						
6.	This molecule is made of two atoms of hydrogen and one atom of oxygen						
	proportion						
5.	It is made up of two or more kinds of atoms or compounds mixed in any						
4.	A Smallest unit of an element that has all the basic properties of the element						
3.	A Compound is same throughout in properties and composition. We call it						
2.	It is made up of particles/atoms of only one kind						



Give the symbols and valency of the following elements and radicals. III.

Potassium 1.

- 2. Sodium
- 3. Hydrogen
- Calcium 4.
- 5. Aluminium
- 6. Magnesium
- Zinc 7.
- Chlorine 8.

9.		Sulphur				
10).	Nitrogen				
11	۱.	Oxygen				
12	2.	Ammonium				
13	3.	Bicarbonate				
14	1.	Nitrate				
15	5.	Bisulphate				
16	5.	Bisulphite				
17	7.	Hydroxide				
18	3.	Carbonate				
19	€.	Sulphate				
20).	Sulphite				
IV	V .	Write the chemical formulae of the following by criss-cross method:				
		A. Magnesium chloride				
		B. Calcium oxide C. Copper nitrate				
		D. Aluminium chloride				
		E. Potassium nitrate				
Work	kshee	et - 4				
A. Fill in the blanks.						
1. Soft drinks and salt solution are examples of ———————————————————————————————————						

2. ———is a method to separate	light husk from h	neavier grains like wheat.					
-	. At construction sites, sand is separated by ———————————————————————————————————						
	Sand and camphor can get separated from each other by ————						
5. ——— helps in loading by ma		•					
		•					
B. Write True and False.							
1. Muslin cloth and charcoal can b	. Muslin cloth and charcoal can be used as filters. ———.						
2. Sand and sugar can be separate	d by sublimation.						
3. Sawdust mixed in water cannot	3. Sawdust mixed in water cannot be separated by sublimation ———.						
4. Muddy water can give clean wa	ater by the proces	s of filtration. ———.					
5. Mixtures with different compos	sitions are called l	neterogeneous. ———.					
C. Match the following.							
. Centrifugation. Immiscible liquids							
2. Separating funnel. Harvested crops							
3. Threshing Dairies							
4. Salt solution.	Salt solution. Hand picking						
5. Pulses,rice.	Evaporation						
D. Pick the correct option.							
1. Naphthalene balls reduce in siz	e due to						
a. Filtration b. Sublimat	ion	c. Evaporation	d. None of these				
2. Sublimation can separate mixtu	re of						
a. Iodine & camphor b. Salt & w	ater	c. Peas & rice	d. None of these				
3. Oil and water can be separated	by						
a. Sedimentation b. Separatin	ng funnel	c. Evaporation	d. All of these				
4. Which of these can be used as filters?							
a. Muslin b. Filter pap	per	c. Cotton wool	d. All of these				
5. Filtration can be used to separate insoluble solids from liquids like							
a. Muddy water b. Tea leave	es	c. To make Tap water fit	d. All of these				
6. Salt from saturated solution can be separated by							
a. Filtration b. Crystalli	sation	c. Sedimentation	d. None of these				
7. Scrap iron is removed from garbage heap by							
a. Magnetic separation b. F	iltration	c. Centrifugation	d. None of these				
8. Which of these is not a pure substance?							

a. Oxygen b. Hydrogen c. Air d. Helium 9. Sieving can be used to separate b. Sand in gravel, pebbles c. Pearls of diff. Sizes a. Tea leaves d. All of these 10. For separating pebbles from pulses and rice, we use a. Sieving b. Hand picking c. Winnowing d. None

