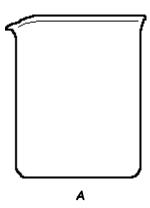
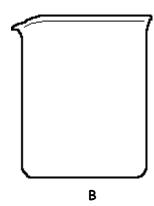
Mixtures, Elements, and Compounds

I. Mixtures

A. Observe the demonstration and list the substances in each beaker.



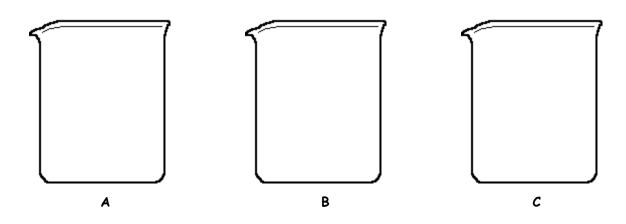


- 1. Describe how each beaker is similar and different.
- 2. Define: Mixture -
- B. Types of Mixtures
 - 1. Define:
 - a. Homo -
 - b. Hetero-
 - 2. One of the beakers above contains a homogeneous mixture and the other contains a heterogeneous mixture. What type of mixture is in beaker A and Beaker B? Explain your answer.

- 3. Define:
 - a. Homogeneous Mixture -
 - b. Heterogeneous mixture -

C. Solutions

1. Observe the demonstration and list the substances in each beaker.



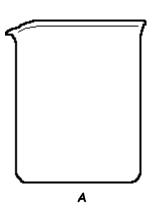
2. Describe how the beakers are similar and different.

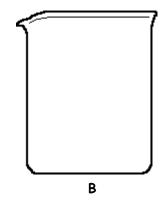
3. Each beaker above contains a solution. Every solution contains at least two parts: the solvent and the solute. Try to identify the solvent and solute in each beaker above.

- 4. Define:
 - a. Solution -
 - b. Solvent -
 - c. Solute -

II. Elements

A. Observe the demonstration and list the substances in each beaker.





1. Describe how each beaker is similar and different. How do these two beakers compare to beakers A and B from the top of page 1?

2. Define: Pure Substance -

1. H ₂ O	2. O ₂	3. H	4. C ₆ H ₁₂ O ₆	
5. <i>C</i>	6. NaCl	7. HCI	8. Na	
9. NaC	PH 10. N	11. F	12. <i>O</i>	
Classify	the above pure	substances.		
4. Defi	ne:			
•	a. Element –			
	o. Atom -			
5. Chei	nical Symbols			
C =		0 =		
Н =	 	N =		
B. Chemically Co	mbined Atoms			
1. <i>C</i> omp	are the following	g substances.		
Criteria	Na	CI	C ₆ H ₁₂ O ₆	
Elements Present				
# of Each Element				

3. Examples of Pure Substances

- 2. Define:
 - a. Compound
 - b. Molecule
- 3. Chemical Formulas
 - a. The following are examples of chemical formulas.

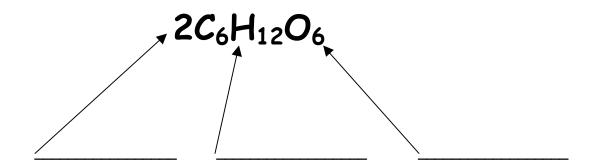
C₆H₁₂O₆

H₂O

NaOH

NaCl

b. Define: Chemical Formula -



c. State the number of each element in the compound above.

C = _____

H = _____

0 = _____

- d. Define: Subscripts -
- e. Coefficients -

4. Chemical Equations

a. The following are examples of chemical equations written in words. Write the following chemical equations in using the chemical formulas.

1.	Hydrochloric Acid + Sodium Hydroxide		-	Sodium Chloride	+ Water
	+			+	
2.	Carbon Dioxide + Water		Glucose	+ Oxygen	
				+	

III. Properties of Elements, Compounds, and Mixtures

A. Complete the chart below based on your knowledge of elements, compounds and mixtures.

Criteria	Elements	Compounds	Mixtures	Sim/Diff
Composed of				
Method of Breaking Down				
Properties of Components				
Properties Throughout				