

WOC Objectives # 2 Chapter 2

1. Define these terms using complete sentences in a way that differentiates each term from the others: Matter    Atoms    Compounds    Molecule    Element
2. Construct a table that lists the top Ten Elements in the universe by abundance. Include the atomic number and symbol for each. Be able to spell the name and chemical symbol of each correctly.
3. Name the seven diatomic elements and write their formulas. Locate them on the periodic table.
4. State the law of constant composition and explain what it means citing an example.
5. Name and give examples of four states of matter.
6. Construct a table that compares and contrasts the properties of solids, liquids, and gases in at least three ways.
7. Differentiate between chemical and physical properties.
8. Identify the following as a chemical or physical properties and be able to classify other examples.:

flammability	state	density	color
reactivity	conductivity	malleability	hardness
9. Differentiate between chemical and physical changes of matter. List three specific examples of each type of change.
10. State the law of conservation of matter.
11. Differentiate between heterogeneous and homogeneous mixtures. Identify the following mixtures as heterogeneous or homogeneous:

Coca-cola	kool-aid	vinegar		
Italian salad dressing	orange juice	shampoo	tap water	milk
tossed salad	concrete	apple juice	alloys	
12. Name two solutions in each of the three common states of matter.
13. Briefly describe how each of the following techniques separates mixtures:

centrifugation	distillation	chromatography	filtration
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