

KEYNOTE PRESENTATION: CLASSIFICATION OF MATTER

Name _____ per: _____

1. Draw a concept map of the classification of matter.

2. Use the nuts and bolts analogy to explain the classification of matter.

a. elements _____

b. compounds _____

c. mixtures _____

- ELEMENTS -

3. Elements are the _____

The element _____ makes up _____% of the universe.

There are currently _____ elements but scientists believe the final number will be _____.

4. How many elements are: Nonmetals _____ Metals _____ Metalloids _____

Periodic Table position: Nonmetals _____ Metals _____ Metalloids _____

5. What are diatomic elements? _____

What are the 8 diatomic elements (as gases) _____

- COMPOUNDS -

6. Chemist define compounds as _____

What is fixed in a compound? Explain _____

7. Define:

Reactants _____

Products _____

8. Write a chemical equation for the reaction between:

iron and sulfur: _____

aluminum and bromine _____

magnesium and oxygen _____

State the Law of Conservation of Mass: _____

- MIXTURES -

9. Chemist define mixtures as _____

over

Mixtures have no _____ . Explain what is meant by this.

10. The two classifications of mixtures are:

a. _____ - _____

Examples: _____

b. _____ - _____

Examples: _____

11. Solutions are _____ mixtures in which the particle size is _____.

a. _____

b. _____

c. _____

Examples: _____

12. What are alloys? _____ examples: _____

13. The two parts of a solution are the:

a. _____ - _____

b. _____ - _____

Name of Solution	Solvent	Solute
Ocean Water		
Filtered Air		
Colas		
14 K Gold		

14. Colloids are _____ mixtures in which the particles size is _____.

1. _____

2. _____

3. _____

Examples: _____

15. What is the Tyndall effect? _____

What is it's purpose? _____

16. Suspensions are _____ mixtures in which the particles size is _____.

1. _____

2. _____

3. _____

Examples: _____

17. Draw the second concept map of matter.