

Name _____

Period _____

MIXTURE WORKSHEET

1. Identify each of the following samples of matter as:

homogeneous matter or heterogeneous matter

- | | |
|---------------------------|-----------------------|
| (a) spaghetti sauce _____ | (d) glass _____ |
| (b) table sugar _____ | (e) river water _____ |
| (c) cough syrup _____ | (f) nitrogen _____ |

2. Classify each of the following as:

element (ele) or compound (com) or mixture (mix)

- | | |
|---------------------------|-----------------------|
| (a) spaghetti sauce _____ | (g) glass _____ |
| (b) table sugar _____ | (h) river water _____ |
| (c) cough syrup _____ | (i) nitrogen _____ |
| (d) silver _____ | (j) a pine tree _____ |
| (e) orange juice _____ | (k) oxygen _____ |
| (f) iced tea _____ | (l) air _____ |

3. Choose words from the following list to fill in the blanks in the sentences.

mixture	heterogeneous matter	substance
compound	homogeneous matter	element

- (a) Matter that has uniform characteristics throughout is called _____.
- (b) Matter that has parts with different characteristics is called _____.

Matter can be classified according to the basic types of matter it contains.

- (c) A simple substance that cannot be broken down into other substances by chemical means is called a(n) _____.
- (d) A chemical combination of simple substances is called a(n) _____.
- (e) A physical combination of different substances that retain their individual properties is called a(n) _____.
- (f) Either an element or a compound may be referred to as a(n) _____.

4. How can you distinguish between a homogeneous mixture and a compound?

"The components of a _____ can be separated by physical means; a _____ must be chemically broken apart into its components. A _____ has a variable composition; a _____ has a definite composition."