

Name: \_\_\_\_\_ Date: \_\_\_\_\_

# Mixtures (U.10b)

**Vocab matching: write the letter of the definition to the left of the correct vocabulary term.**

- |                                  |  |
|----------------------------------|--|
| ___ 1. mixture                   | a. Medium-sized solute that will NOT separate into layers under force of gravity   |
| ___ 2. heterogeneous             | b. A mixture that has the same consistency throughout  |
| ___ 3. suspension                | c. the solute is visible to the eye and will separate into layers under force of gravity   |
| ___ 4. solvent                   | d. Two or more things physically combined  |
| ___ 5. homogeneous               | e. The part of a solution that is being dissolved and is in the smaller proportion   |
| ___ 6. alloy                     | f. A dissolvable substance   |
| ___ 7. colloid                   | g. A mixture that does NOT have the same consistency throughout  |
| ___ 8. solution                  | h. The part of a solution that does the dissolving and is in the largest proportion  |
| ___ 9. solute                    | i. A solid+solid solution such as brass or steel   |
| ___ 10. insoluble                | j. The smallest sized solute particles (even lasers cannot image them for us); they will NOT separate into layers under force of gravity |
| ___ 11. soluble                  | k. The universal solvent   |
| ___ 12. Pure substance           | l. A substance that will not dissolve  |
| ___ 13. Water (H <sub>2</sub> O) | m. an element or compound  |

**Classify the following substances as solutions, colloids, or suspensions:**

14	Salad dressing	
15	Coca-cola	
16	Fertilizer spread on a lawn	
17	House paint for walls	
18	A garden compost pile	
19	A ring that is 20% gold and 80% copper	
20	Laundry detergent (contains white and blue crystals)	
21	Cough syrup that must be shaken before pouring	
22	Fresh-squeezed orange juice	
23	Benzene (C <sub>6</sub> H <sub>6</sub> )	
24	Nail polish remover (C <sub>3</sub> H <sub>6</sub> O)	
25	A muddy pond	
26	milk	
27	Fresh-brewed coffee	
28	Wood smoke	

**Answer the following questions to the best of your ability; use your notes and Google searches to improve your answer.**

29. Not all solutions are solids dissolved in liquids. Provide two examples of other types of solutions.

30. What is the Tyndall Effect (look it up!)? Give a common example of this effect.

31. What kind of mixture is represented by our skin moisturizer prototypes? What evidence supports your claims?



