

Name: _____
Science 9-ST

Ans

Date: _____

Properties of Matter Worksheet

1. Which of the following are **pure substances** (P) and which are **mixtures** (M)?

- a. milk M
- b. carbon dioxide P
- c. ocean water M
- d. lead P
- e. glue M
- f. salt P
- g. iron P
- h. rock M
- i. oxygen P
- j. air M

2. Which of the following are examples of **homogeneous mixtures** (H) and which are **heterogeneous mixtures** (h)?

- a. tea Ho
- b. salt water Ho
- c. salad dressing He
- d. pool water Ho
- e. paint He
- f. sand and water He
- g. coke Ho
- h. dirt He
- i. cleaning fluids Ho
- j. fertilizer He

3. Which of the following are **elements** (E) and which are **compounds** (C)?

- a. Cu E
- b. H₂O C
- c. carbon dioxide C
- d. gold E
- e. H₂ E
- f. F₂ E
- g. CaCO₃ C
- h. B E
- i. hydrogen E
- j. Mn E

Names: Ans.

Pure Substance and Mixtures
Learning Activity Sheet

For each substance listed in the chart below, indicate whether it is an element, compound, homogeneous mixture or heterogeneous mixture.

1. Sand Hete	2. Salt (NaCl) C	3. Pure Water (H ₂ O) C
4. Soil Hete	5. Soda (Coke) Homo	6. Air Homo
7. Carbon Dioxide C	8. Gold E	9. Milk Hete (colloid)
10. Oxygen E	11. Salad Dressing Hete	12. Salt Water Homo
13. Sugar (C ₆ H ₁₂ O ₆) C	14. Silver (Ag) E	15. Bronze Homo
16. Toonie (\$2 coin) Hete	17. Kool-aid Homo	18. Orange Juice with Pulp Hete
19. <u>10 Karat</u> gold bracelet Homo	20. Chocolate Chip Cookie Hete	21. Tap Water Homo
22. Coffee with <u>Milk</u> Hete → <u>colloid</u>	23. Helium (He) E	24. Smog (smoke + fog) Homo