

Name _____ Period _____ Date _____

Classification of Matter

PART A – COMPOSITION OF MATTER

- Classify the following as *element*, *compound*, *heterogeneous mixture*, or *solution* (homogeneous mixture).
 - hydrogen gas _____
 - orange juice _____
 - air _____
 - carbon dioxide (CO₂) _____
- Compare and contrast a *mixture* and a *compound*. How are they alike? How are they different? Use complete sentences.

PART B – SOLUTIONS, COLLOIDS, AND SUSPENSIONS

- For each type of mixture draw a picture representing the size and distribution of particles in a liquid.



SOLUTION



COLLOID



SUSPENSION

PART C – PROPERTIES & CHANGES OF MATTER

- Classify the following properties of matter as chemical (C) or physical (P).
 - flexible _____
 - combustible _____
 - boils at 20°C _____
 - low reactivity _____
- Classify the following as chemical (C) or physical (P) changes.
 - grapes fermenting _____
 - copper melting _____
 - recycling aluminum _____
 - gasoline exploding _____