

Name: KEY

Date: _____

Period: _____

CLASSIFICATION OF MATTER WORKSHEET

HOMOGENEOUS VS. HETEROGENEOUS MATTER

Classify the following types of matter as either homogeneous or heterogeneous.

1. carbonated soft drink (w/ bubbles) **heterogeneous**
2. chocolate chip ice cream **heterogeneous**
3. Italian salad dressing **heterogeneous**
4. corn syrup **homogeneous**
5. soil **heterogeneous**
6. aluminum foil **homogeneous**
7. black coffee **homogeneous**
8. sugar water **homogeneous**
9. air (with smog) **heterogeneous**
10. paint **homogeneous**
11. rubbing alcohol **homogeneous**
12. full fat milk **heterogeneous**
13. beach sand **heterogeneous**
14. pure air **homogeneous**
15. chunky spaghetti sauce **heterogeneous**

PURE SUBSTANCES VS. MIXTURES

Classify the following as pure substances (element or compound) or mixtures.

1. sodium **Pure substance (E)**
2. water **Pure substance (C)**
3. soil **Mixture**
4. coffee **Mixture**
5. oxygen **Pure substance (E)**
6. isopropyl alcohol **Pure substance (C)**
7. carbon dioxide **Pure substance (C)**
8. cake batter **Mixture**
9. air **Mixture**
10. chicken noodle soup **Mixture**
11. iron **Pure substance (E)**
12. salt water **Mixture**
13. chocolate chip ice cream **Mixture**
14. nitrogen **Pure substance (E)**
15. Eggs **Mixture**
16. Blood **Mixture**
17. table salt **Pure substance (C)**
18. nail polish **Mixture**
19. milk **Mixture**
20. Soda **Mixture**

CLASSIFICATION OF MATTER

Check the appropriate categories for the substances listed below. All substances will have a check in more than one column.

Substance	Heterogeneous Matter	Homogeneous Matter	Pure Substance	Solution	Element	Compound	Mixture
lead metal		✓	✓		✓		
table salt (NaCl)		✓	✓			✓	
Kool-Aid drink		✓		✓			✓
vegetable soup	✓						✓
oxygen gas		✓	✓			✓	
distilled water		✓	✓			✓	
Concrete	✓						✓
pure gold		✓	✓		✓		
brass metal		✓		✓			✓
flat 7-Up soda		✓		✓			✓
raw egg (cracked open)	✓						✓
Air		✓		✓			✓
pure iron		✓	✓		✓		
iron rust (Fe ₂ O ₃)		✓	✓			✓	
dirt	✓						✓
baking soda (NaHCO ₃)		✓	✓			✓	