#### **UNIT 2 - MATTER & CHANGE**

# **CLASSIFICATION OF MATTER WORKSHEET**

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

Substance	<u>Heterogeneous</u> <u>Matter</u>	Homogeneous Matter	<u>Pure</u> Substance	Solution	Element	Compound	<u>Mixture</u>
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 (Fe₂O₃)							
soil							
baking soda (NaHCO₃)							

# **PHYSICAL VS. CHEMICAL CHANGES 1 WORKSHEET**

Classify the following as being a chemical or a physical change.

- 1. Sodium hydroxide dissolves in water.
- 2. Hydrochloric acid reacts with potassium hydroxide to produce a salt, water, and heat.
- 3. A pellet of sodium is sliced in two.
- 4. Water is heated and changed to steam.
- 5. Potassium chlorate decomposes to potassium chloride and oxygen gas.
- 6. Iron rusts.
- 7. When placed in water, a sodium pellet catches on fire as hydrogen gas is liberated and sodium hydroxide forms.
- 8. Evaporation.

### <u>UNIT 2 - MATTER & CHANGE</u> <u>HOMOGENEOUS VS. HETEROGENEOUS MATTER WORKSHEET</u>

Classify the following as either homogeneous or heterogeneous.

flat soft drink (no bubbles)	9.	air (with smog)
chocolate chip ice cream	10.	paint
Italian salad dressing	11.	alcohol
sugar	12.	iron
soil	13.	beach sand
	chocolate chip ice cream  Italian salad dressing sugar	chocolate chip ice cream 10. Italian salad dressing 11. sugar 12.

6. aluminum foil7. black coffee14. pure air15. chunky spaghetti sauce

8. sugar water

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#### **PURE SUBSTANCES VS. MIXTURES WORKSHEET**

Classify the following as pure substances or mixtures.

Classify the following as pure substances of finitures.						
1.	sodium	11.	iron			
2.	water	12.	salt water			
3.	soil	13.	chocolate chip ice cream			
4.	coffee	14.	nitrogen			
5.	oxygen	15.	eggs			
6.	70% isopropyl alcohol	16.	blood			
7.	carbon dioxide	17.	table salt			
8.	cake batter	18.	nail polish			
9.	air	19.	milk			
10.	chicken noodle soup	20.	soda			