### **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	Heterogeneous Matter	Homogeneous Matter	<u>Pure</u> Substance	Solution	<u>Element</u>	Compound	<u>Mixture</u>
lead metal			- 1		2		
table salt (NaCl)			. V			V	
Kool-Aid drink		V					V
vegetable soup	1/					. مر	<i>1</i> /
oxygen gas			V			V 02	
distilled water			V		-	V	
concrete		V					
pure gold			V		1		
brass metal		/					
flat 7-Up soda							
raw egg (cracked open)	yolk + white	,					
air							L
pure iron		•	2		i/		
iron rust (Fe₂O₃)			V				
soil							
baking soda (NaHCO₃)					-		

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

Classify th	ne following a	s 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.

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

## **HOMOGENEOUS VS. HETEROGENEOUS MATTER WORKSHEET**

Hetero

Classify the following as either homogeneous or heterogeneous.

- 1. flat soft drink (no bubbles) Homo
- 2. chocolate chip ice cream Hetero
- 3. Italian salad dressing
- 4. sugar Pire Comp
- 5. soil Net
- 6. aluminum foil Pure
- 7. black coffee Namo Mux
- 8. sugar water Homo Mix

- 9. air (with smog) Het Mix
- 10. paint Homo Mix
- 11. alcohol Pane Carporal
- 12. iron Pure Element
- 13. beach sand Het Mix
- 14. pure air
- 15. chunky spaghetti sauce Het Mix

# **PURE SUBSTANCES VS. MIXTURES WORKSHEET**

Classify the following as pure substances or mixtures.

- 1. sodium Pure
- 2. water Pure
- 3. soil
- 4. coffee Ruce
- 5. oxygen Pure
- 6. 70% isopropyl alcohol Homo mix
- 7. carbon dioxide Compound Pund
- 8. cake batter Homo Mix
- 9. air Hano Mix
- 10. chicken noodle soup

- 11. iron have
- 12. salt water Homo Mix
- 13. chocolate chip ice cream Het Max
- 14. nitrogen Pure
- 15. eggs Het Mix
- 16. blood Het Mx
- 17. table salt Pure
- 18. nail polish Numo Mux
- 19. milk Homo Mix
- 20. soda Homo Mix