HOMOGENEOUS VS. HETEROGENEOUS MATTER

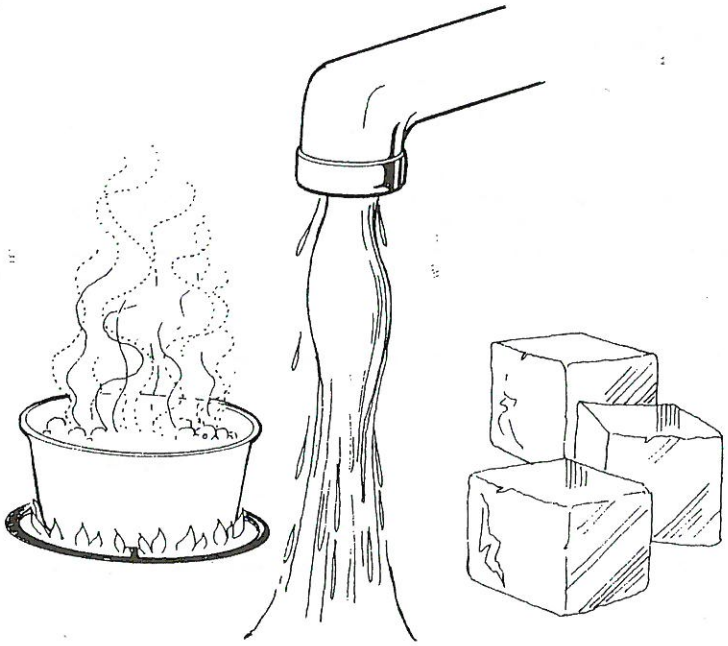
Name _____

Classify the following substances and mixtures as either homogeneous or heterogenec
Place a √ in the correct column.

	HOMOGENEOUS	HETEROGENEOI
1. flat soda pop		
2. cherry vanilla ice cream		
3. salad dressing		
4. sugar		
5. soil		
6. aluminum foil		
7. black coffee		
8. sugar water		
9. city air		
10. paint		
11. alcohol		
12. iron		
13. beach sand		
14. pure air		
15. spaghetti sauce		

PHYSICAL VS. CHEMICAL CHANGE

Name _____



In a physical change, the original substance still exists, it has only changed in form. Energy changes usually do not accompany physical changes, except in phase changes and when substances dissolve.

In a chemical change, a new substance is produced. Energy changes always accompany chemical changes. Chemical changes are always accompanied by physical changes.

Classify the following as examples of a physical change, a chemical change or both kinds of change.

1. Sodium hydroxide dissolves in water. _____
2. Hydrochloric acid reacts with sodium 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. Ice melts. _____
8. Acid on limestone produces carbon dioxide gas. _____
9. Milk sours. _____
10. Wood rots. _____