## Elements, Compounds, and Mixtures

Classify each of the pictures below by placing the correct label in the blanks below:

A= Element

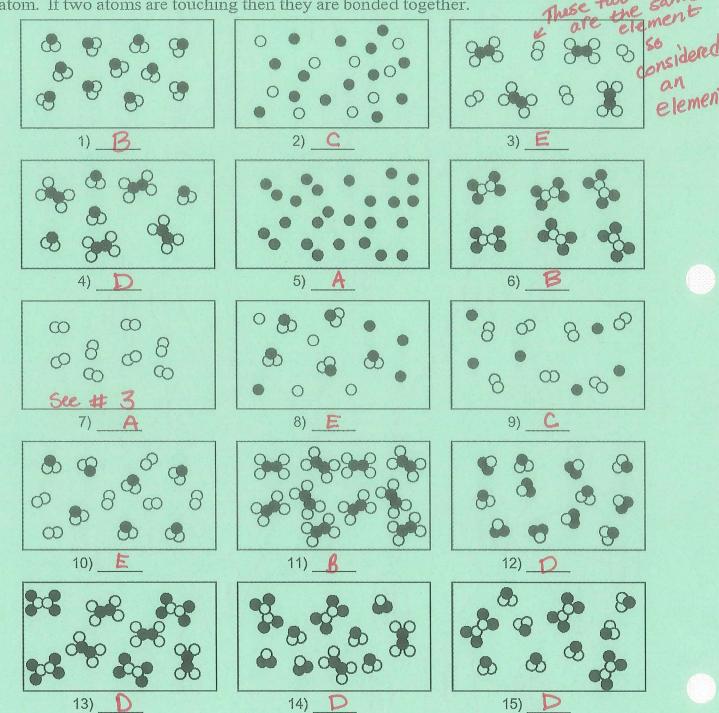
D= Mixture of compounds

B= Compound

E= Mixture of elements and compounds

C= Mixture of elements

Each circle represents an atom and each different color represents a different kind of atoms atom. If two atoms are touching then they are bonded together.



Name:	Beth"	KEY"

Consider dissolving to be mixing of two or more Place a check in the appropriate column: Substances in a uniform manner.

Place a check in the appropriate column: Substant 200	CHICOTT	
Change	Physical Change	Chemical Change
Salt dissolves in water.		
Hydrochloric acid reacts with magnesium to produce hydrogen gas.	F	
A piece of copper is cut in half.		
A sugar cube is ground up.		
Water is heated and changed to steam. Change of State	re.	
Iron rusts.		
Ethyl alcohol evaporates.		
Ice melts.		
Milk sours (goes bad).		
Sugar dissolves in water.		
Sodium and potassium react violently with water.		
Pancakes cook on a griddle. The browning of food crange.		
Grass grows on a lawn.	-	
A tire is inflated with air.		
Food is digested in the stomach.		
Water is absorbed by a paper towel.		
Ethyl alcohol boils at 79°C.		
Paper burns.		
Water freezes at 0°C.	V	
Fireworks explode.		<b>/</b>
Alka-Seltzer gives off carbon dioxide when added to water.		
Clouds form in the sky.		

NAME BETH"KEY"

INSTRUCTIONS: Write E in the blank if the material is heterogeneous or O if it is homogeneous.

1. Wood	E	6. Dirt	E			
2. Freshly-brewed black coffee	0	7. Sausage-and-mushroom pizza	E			
3. Water From the fauct	0	8. Air	0			
4. Lucky Charms® hot apply	E	9. Milk	0			
5. Salt (Jedized)  IF pure sout, does not ap  INSTRUCTIONS: Classify each of the following a		10. Gold Element  Connot be described compound [C], or a mixture [M].	as Eoro			
11. Gold Au	E	16. Air	M			
12. Water <b>H<sub>2</sub>O</b>	C	17. Carbon dioxide CO2	<u>C</u>			
13. Seawater	M	18. Silver	E			
14. Sugar C12H22O11	C	19. Ice	C			
15. A chocolate sundae		20. A Big Mac®	M			
INSTRUCTIONS: Classify each of the following properties of matter as <i>physical</i> [P] or <i>chemical</i> [C].						
21. Color	P	26. Reacts violently with chlorine	<u>C</u>			
22. Density	P	27. Good conductor of heat	P			
23. Burns easily (flammable)		28. Dissolves readily in water	<u>P</u>			
24. Not affected by acids		29. Melts at 145 °C	P			
25. Boils at 450 °C	-	30. Malleable	<u>P</u>			
INSTRUCTIONS: Classify each of the following changes in matter as physical [P] or chemical [C].						
31. Grinding chalk into powder	P	36. Burning gasoline	<u>C</u>			
32. Dissolving salt in water	P	37. Hammering gold into foil	P			
33. Dissolving-zinc in acid	C	38. Melting ice	P			
34. Tearing a piece of paper	P	39. Digesting food	C			
35. Stretching copper into wire	P	40. Making hydrogen from water	<u>C</u>			