

# Study Guide for Chemical Changes, Metals/Nonmetals/Metalloids, and Density Quiz

1. What are 4 pieces of evidence of a Chemical Change?

- Change in color
- Change in temperature
- A gas is formed
- A precipitate (solid) forms from 2 liquids

Quiz on : Tue 10/17

Parent Sig for + 5 \_\_\_\_\_

2. All CHEMICAL CHANGES result in a new substance being formed.

3. When two or more substances chemically combine, the atoms in the original substances REARRANGE for form the NEW substances.

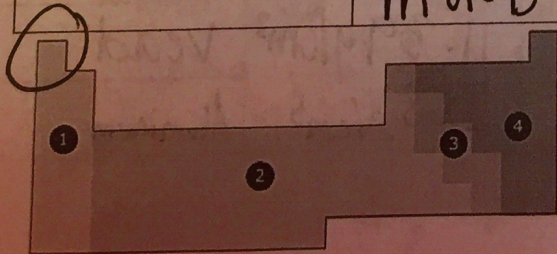
4. After a chemical change, the properties of the new substance are usually different than the properties of the original substances.

5. Classify each as a Physical Change or a Chemical Change.

- |   |   |
|---|---|
| A. A raw egg becomes a cooked egg <u>C</u>  | G. N <sub>2</sub> gases are being produced <u>C</u>                                     |
| B. Upon mixing baking soda and vinegar, bubbles form and rise to the top <u>C</u> | H. A wall is painted gray <u>P</u>  |
| C. Oil rises to the top when poured into a cup of water <u>P</u>                  | I. Clear water turns yellow when you mix in a lemonade packet <u>P</u>                  |
| D. A glow stick is cracked and lights up <u>C</u>                                 | J. Two liquids are mixed and produce a white solid which settles to the bottom <u>C</u> |
| E. An ice cube melts on a hot day <u>P</u>  | K. A spoon begins to rust <u>C</u>  |
| F. Tablets dissolve in water <u>C</u>   | L. Water freezes to form ice cubes <u>P</u>   |

## Physical Properties of METALS, NONMETALS, AND METALLOIDS

	Malleable or Brittle?	Conductor or Insulator?	Luster (Shiny or Dull)
6. Metals	Malleable	Conductor	Shiny
7. Nonmetals	Brittle	Insulator	Dull
8. Metalloids	M or B	Semi-Conductor	Shiny or Dull



Locations on the Periodic Table

1 and 2: metals

An element that's an exception: Hydrogen

3: Metalloids

4: Nonmetals