

Basic Chemistry Worksheet

- Classify each of the following as a Physical (P) or chemical (C) change:
 - Bending a piece of wire
 - Cooking a steak
 - Burning coal
 - Cutting grass
 - Ice melting
 - Folding a piece of paper
 - Curtains fading in color from hanging in the sun
 - Sanding a piece of wood with sandpaper
 - Frying an egg
 - Human digestion of food
 - Splitting a log with an axe
 - Crushing an aluminum can
 - Cracking open a walnut
 - Photosynthesis
- What is the difference between an element and a compound?
- Where are the protons of an atom found? The neutrons? The electrons?
- Electrons found in the outer shell or orbital are called?
- What is the charge on a proton? A neutron? An electron?
- Each energy level can hold a fixed number of electrons. Write the number of electrons that the following orbitals can hold.
 - 1st;
 - 2nd;
 - 3rd;
 - 4th;
- How many valence electrons can each of the following hold:
 - O
 - Al
 - Cl
 - F
 - K
 - Ca
 - N
 - Be
 - H
 - P
 - C
 - Na
- What does the atomic number of an element tell you about its sub-atomic makeup?
- What is the atomic number of the following?
 - O
 - Al
 - Cl
 - F
 - K
 - Ca
 - N
 - Be
 - H
 - P
 - C
 - Na
- What does the atomic mass (or mass number) tell you about an element's sub-atomic makeup?