

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:

a. O	c. Cl	e. K	g. N	i. H	k. C
b. Al	d. F	f. Ca	h. Be	j. P	l. Na
- What does the atomic number of an element tell you about its sub-atomic makeup?
- What is the atomic number of the following?

a. O	c. Cl	e. K	g. N	i. H	k. C
b. Al	d. F	f. Ca	h. Be	j. P	l. Na
- What does the atomic mass (or mass number) tell you about an element's sub-atomic makeup?