

Name _____

Period _____

Metals Non-Metals Worksheet

1. Identify the following as metals, nonmetals, or metalloids using the periodic table.
 - (a) silicon
 - (b) fluorine
 - (c) uranium
 - (d) mercury
 - (e) arsenic
 - (f) iridium
2. List three differences in the physical properties between metals and nonmetals.
3. Determine whether the element Calcium is a metal or a nonmetal without looking at a periodic table. How can this be determined?
4. How do metals and nonmetals differ in terms of how they lose/gain electrons.
5. Why are most of the elements on the left and in the middle of the periodic table metals?
6. Halogens tend to gain electrons when they react making them nonmetals. How many electrons do the halogens tend to gain? Why?
7. For the element Selenium, use the electron configuration and a periodic table answer the following questions.
 - (a) What group is it in?
 - (b) What period is it in?
 - (c) Is it a metal, nonmetal, or metalloid?
 - (d) List three properties of this substance?
 - (e) What element(s) might it behave like?
 - (f) How many valence electrons does it have?
 - (g) When it reacts will it tend to gain or lose electrons?
 - (h) How many electrons will it tend to gain or lose?