

The Periodic Table : Notes/W.S.-20

The periodic table is divided into two parts by the staircase. (dark line between boron and astatine)

The metals are on the left of the staircase and the non-metals are on the right. The exception is hydrogen. It is considered a non-metal.

Metals have four important properties. They are; shiny, ductile (you can make wire out of it), malleable (you can pound it into thin sheets) and they are good conductors of electricity. The non-metals are not; shiny, ductile, malleable or good conductors of electricity.

Most of the metals and non-metals are solid. The liquids are; mercury and bromine. The gases are H, N, O, F, Cl, He, Ne, Ar, Kr, Xe and Rn.

Questions:

- 1)a) Name the two elements which are liquids.
- b) Which of the above two elements is a metal?
- 2) Give the **name** of all of the elements which are gases.
- 3)a) Which contains more elements; the metals or the non-metals?
- b) How many non-metallic elements are there?
- 4) Give four properties of metals.
- 5) Define: ductile, malleable.
- 6)a) Which is the non-metal; iodine or indium?
- b) Which is shiny; chromium or carbon?
- c) Which is a conductor; sulfur or strontium?
- d) Which is ductile; tellurium or titanium?

Answers: 1)a) mercury, bromine, b) mercury, 2) hydrogen, nitrogen, oxygen, fluorine, chlorine, helium, neon, argon, krypton, xenon, and

radon. 3)a) metals, b) 22 (hydrogen is considered a non-metal), 4) Metals are shiny, ductile, malleable and are good electrical conductors., 5) ductile; you can make wire out of it, malleable; you can pound it into thin sheets., 6)a) iodine, b) chromium, c) strontium, d) titanium.