

GENERAL CHEMISTRY

STANDARD 1.17

1.17: Relate the atomic symbols with their correct atomic name

ATOMIC SYMBOLS

- Every element is organized on the Periodic Table
 - 91 naturally-occurring elements
 - 27 synthetic (man-made) elements
 - Most of the synthetic elements are highly radioactive and decay rapidly
- All elements have a one- or two-letter abbreviation (symbol)
 - Elements and symbols determined by International Union of Pure and Applied Chemistry (IUPAC)
 - Names reflect Latin words, places on Earth, astronomical objects, rocks and minerals, and important people throughout history
- Don't forget the Dirty 7 – homonuclear diatomic molecules
 - These seven elements have a subscript two included with their symbol
 - Hydrogen – H_2 , Nitrogen – N_2 , Oxygen – O_2 , Chlorine – Cl_2 , Fluorine – F_2 , Bromine – Br_2 , Iodine – I_2