

The Mid-Michigan Rock Club Presents

CRYSTAL LATTICE BASICS AND THE CHEMICAL FORMULA OF MINERALS

Periodic Table of the Elements

The image shows a standard periodic table of elements, color-coded by groups and series. The groups are labeled at the top: 1 (IA, 11A), 2 (IIA, 2A), 3 (IIIB, 3B), 4 (IVB, 4B), 5 (VB, 5B), 6 (VIB, 6B), 7 (VIIB, 7B), 8, 9, 10 (VIII, 8), 11 (IB, 1B), 12 (IIB, 2B), 13 (IIIA, 3A), 14 (IVA, 4A), 15 (VA, 5A), 16 (VIA, 6A), 17 (VIIA, 7A), and 18 (VIIIA, 8A). The series are labeled at the bottom: Alkali Metal, Alkaline Earth, Transition Metal, Basic Metal, Semimetals, Nonmetals, Halogens, Noble Gas, Lanthanides, and Actinides. The table includes element symbols, names, atomic numbers, and atomic weights.

Presented by Tyler Thompson

The most fundamental of all types of crystal lattice is the "close packed" arrangement. Tyler Thompson will demonstrate the characteristics of this lattice by physical models as well as graphic slides. He will go on to show how the empirical chemical formula of many minerals can give some insight into their structure. The chemistry will be geared for an entry chemistry level, but with enough Q&A that anyone with an imagination should be able to follow it!

So get your thinking caps on and get ready to envision the wonderful molecular world of Minerals!!!!

Date: Tuesday September 3rd, 2013

Time: 7:00 pm

Place: Chippewa Nature Center

As always, feel free to bring in any rocks, minerals and fossils that you would like to share or need help identifying.