



# PERIODIC TABLE

## 8th Grade and High School

### DESCRIPTION

What is an element? Have you ever wondered why elements in the same group number on the periodic table have similar chemical reactivity? Who thought up the idea of a periodic table? How did it get its name? How does it affect our everyday lives? Come answer these questions and more as we learn about the basics and the makeup of the periodic table. Visit a larger than life model in Tellus' Weinman Mineral Gallery and then experience some hands-on manipulatives in the lab as an introduction to the Periodic Table and basic atomic structure. Program will run for 1.5 hours.

#### 30 MINUTES – GALLERY TIME

- Anatomy of the Planet, Geode, The Life Size Periodic Table (discuss its organization and what information the table gives us)
- Participate in gallery wide scavenger hunt
- Discuss Earth's crust and its elements found in the table

#### 30 MINUTES

- Gem Panning and Careers in Geology

#### 30 MINUTES - LAB

- Students will understand through various manipulatives: periods, groups or families, metals, non metals, transition metals, halogens, noble gases, valence electrons, basic atomic structure, etc.
- Students will play "It's Elemental," an element identification game

#### TAKE HOME ITEMS

- Keep the gemstones found in Gem Panning

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