1. FOCUS & CONTENT:

Students will practice locating elements on the periodic table, identifying elements by their atomic number, and calculating atomic mass. Students will identify element trends based on their location on the periodic table.

1. MATERIALS & RESOURCES:

* Video link and two worksheets.
* <http://www.youtube.com/watch?v=ywqg9PorTAw>

1. CONNECTIONS:

The periodic table is used to list all currently discovered elements. The atomic number and atomic mass provide information about that element’s configuration. The element’s position on the periodic table provides information about its size, reactivity and behavior.

1. ACTIVITIES:
2. ENGAGEMENT…Students will view a short video clip that reviews the important information on the periodic table and use of the periodic table.
3. DEVELOPMENT… Students will complete two worksheets that require them to use the periodic table to define elements and describe the characteristics of the elements. The information about each element is used to understand the element’s chemical behavior..

1. APPLICATION…Students will then describe how what they did today applies to the current section of chemistry that they are studying (acid/bases, bonds, gas laws etc).

Lesson’s Topic: Atomic Structure & Locating Elements on the Periodic Table

Subject Area: Chemistry

Grade Level: 10-12

1. EXTENSIONS:

Students are challenged to explain chemical behavior of their current unit of chemistry (acid/bases, bonds, gas laws etc) via trends, position and information located on the periodic table.

1. OUTCOMES & EVALUATIONS:

Students’ use of the periodic table as a tool to understand chemical behavior will be reinforced through this activity.

< TEACHER PLANNING >

< IMPLEMENTATION: INTERACTIONS, REFLECTIONS, NEW CONNECTIONS >

Day(s)/Date(s): 1 day substitute lesson plan

School District: Tustin Unified

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