

Periodic Trends

Florida Sunshine State Standard Benchmark: SC.A.2.4.5- Knows that elements are arranged into groups and families based on similarities in electron structure and that their physical and chemical properties can be predicted.

Overview:

Elements within the modern periodic table are arranged, by increasing atomic number, in rows (periods) and columns (groups or families) in order to convey trends in their physical and chemical properties. In this way, generalizations concerning groups of elements can provide useful knowledge as to characteristic behaviors. A true understanding of the rationale behind the arrangement can provide insight into the behavior pattern of each element, such as its tendency to form a particular type of bond, react with a specific element, or change state.

The periodic table is organized as follows:

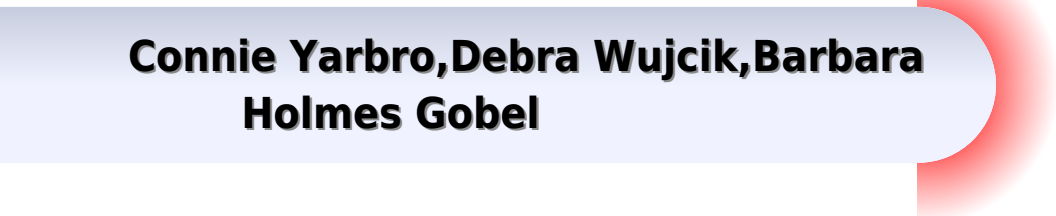
- Groups (Columns):**
 - 1A: Alkali Metals
 - 2A: Alkaline Earth Metals
 - 3-10: Transition Metals
 - 11A: Coinage Metals
 - 12A: Zinc Group
 - 13A: Boron Group
 - 14A: Carbon Group
 - 15A: Nitrogen Group
 - 16A: Chalcogens
 - 17A: Halogens
 - 18A: Noble Gases
- Periods (Rows):** 1 to 7
- Blocks:**
 - s-block:** Groups 1A and 2A
 - p-block:** Groups 13A to 18A
 - d-block:** Groups 3 to 10
 - f-block:** Lanthanide and Actinide series
- Color-Coding:**
 - Metals (Blue):** Groups 1A, 2A, 3-10, 11A, 12A
 - Non-Metals (Green):** Groups 13A, 14A, 15A, 16A, 17A, 18A
 - Metalloids (Yellow):** Groups 13A, 14A, 15A, 16A, 17A

The activity that follows provides students with the opportunity to compare and contrast properties of elements located throughout the periodic table as it details its organization.

Time Frame: 1 hour of class time, variable amount of research time

Ca Standards Periodic Table Trends Lesson Plan

**Connie Yarbrow, Debra Wujcik, Barbara
Holmes Gobel**



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Sejnowski, 2005-12-08 The complexity of the brain and the protean nature of behavior remain the most elusive area of science but also the most important van Hemmen and Sejnowski invited 23 experts from the many areas from evolution to qualia of systems neuroscience to formulate one problem each Although each chapter was written independently and can be read separately together they provide a useful roadmap to the field of systems neuroscience and will serve as a source of inspirations for future explorers of the brain *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1962 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December

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Marshall Student Center may not interfere with building operations and requires prior approval. University Departments,
Current Students, and ... College of Motion Picture Arts - Florida State University Rigorous, hands-on programs (BFA or
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location matching "university of florida, gainesville ... Exclude · Steve Martin, Keanu Reeves, Martha Plimpton, Tom Hulce,
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