

Plotting Trends

A Periodic Table Activity

Introduction

Most chemistry textbooks report a wealth of numerical data uniformly periodic trends in the properties of elements. Ionization energies, atomic radii, electronegativity values and electron affinities—all are carefully tabulated and graphed. But what do all the numbers mean? In this cooperative activity, use microscale reaction plates and straws of different lengths to construct three-dimensional bar-type charts of the physical properties of the elements. The resulting charts are visually impressive and clearly reveal the meaning of periodic trends in the properties of elements.

Concepts

- Periodic Table
- Periodic trends
- Electron affinity
- Ionization energy
- Atomic radius
- Electronegativity

Materials

(for 28 students working in groups of 4)

Calculator, at least 1 per student group

Handouts of representative elements data, 28

Index cards, 4 × 6 inches, 7

Periodic Table (for reference), at least 1 per student group

Reaction plates, microscale, 96-well (8 × 12 layout), 7

Rulers, metric, marked in millimeters, at least 1 per student group

Schems, at least 1 per student group

Straws, 350 (50 per student group)

Safety Precautions

Although the materials in this activity are considered nonhazardous, follow all normal laboratory safety guidelines.

Procedure

- Form a working group with three other students.
- Obtain a handout of Representative Elements Data, a microscale reaction plate, a metric ruler, schems and 50 plastic straws.
- Find your assigned physical property on the Representative Elements Data handout for 42 representative (outer group) elements.
- Find the maximum value of the assigned physical property for the elements listed. *Example:* The maximum value of the density for the elements listed is 11.342 g/cm³ (for lead).

- Let the length of the straw minus one cm represent this maximum value. This will be the scale for all of the other measurements of that property. *Example:* For a straw that is 19.5 cm long, a straw length of 18.5 cm would represent a density of 11.342 g/cm³. The scale is thus 18.5 cm = 11.342 g/cm³. Round off straw lengths to 0.1 cm (1 mm).

- Using this "straw" scale as a ratio, calculate the straw length that is needed to represent the assigned property for each element in the list. *Example:* The density of beryllium is 1.848 g/cm³. Solving Equation 1 for the straw length (s) shows that a straw length of 3.0 cm would represent the density of beryllium. Round off all straw lengths to 0.1 cm.

$$\frac{18.5 \text{ (cm)}}{11.342} = \frac{s \text{ (cm)}}{1.848}$$

$$(18.5 \times 1.848) / 11.342 = 3.0 \text{ cm} \quad \text{Equation 1}$$

- Add 1 cm to the calculated straw length for each element, and cut a straw to that length. *Example:* Cut a straw 4.0 cm long to represent beryllium.

- Place the straw in the reaction plate according to its position in the periodic table. Remember, the transition elements and lanthanides and actinides are not included in the list of representative elements. *Example:* Beryllium is placed in row 2, column 2.

- Repeat steps 6–8 for each element in the list.

- Determine the nature of any periodic relationship or trend that may exist for the assigned property of the elements.

- Propose an explanation for the observed trend.

- Create a descriptive card to be displayed with the three-dimensional chart. Include the following information on the descriptive card:

- Names of group members
- The assigned physical property of the elements
- Description of the observed trend
- Proposed explanation for the observed trend

Plotting Trends A Periodic Table Activity

Didier Musso



Plotting Trends A Periodic Table Activity:

Plotting Trends A Periodic Table Activity Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Plotting Trends A Periodic Table Activity**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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