

Using Clues to Identify Elements

Background Information

Chemical elements can be classified according to their properties as metals, nonmetals, and metalloids. Metals are good conductors of heat and electricity. Many metals are malleable and ductile. Nonmetals are poor conductors of heat and electricity, and solid nonmetals tend to be brittle. Metalloids have properties between those of metals and nonmetals.

Elements in the same group on the periodic table have the same number of valence electrons, which are electrons in the highest occupied energy level of an atom. The number of an A group matches the number of valence electrons in atoms of each element in the group. For example, the Group 4A elements each have four valence electrons per atom. The exception to this pattern is the element helium, which is in Group 8A but has only two valence electrons.

Because elements in a group have the same number of valence electrons, they tend to have similar properties. The most reactive metals are the **alkali metals** in Group 1A on the far left side of the periodic table. The Group 2A elements are the **alkaline earth metals**, which are somewhat less reactive than the alkali metals. Groups of elements become less metallic in their properties from left to right across the periodic table. The most reactive nonmetals are the **halogens** in Group 7A. Group 8A contains the **noble gases**, which are colorless and odorless, and rarely react with other elements.

In this investigation, you will use a list of clues to identify 24 elements and place them in their correct locations in the periodic table.

Problem

Where do the elements described in the clues fit in the periodic table?

Pre-Lab Discussion

Read the entire investigation. Then, work with a partner to answer the following questions.

1. **Analyzing Data** How will the index cards be useful when you are reading the clues to the elements?

Using Clues To Identify Elements Data Sheet

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Using Clues To Identify Elements Data Sheet:

Whispering the Secrets of Language: An Emotional Journey through **Using Clues To Identify Elements Data Sheet**

In a digitally-driven earth where screens reign great and immediate conversation drowns out the subtleties of language, the profound secrets and emotional nuances hidden within words usually move unheard. However, nestled within the pages of **Using Clues To Identify Elements Data Sheet** a captivating fictional prize pulsing with fresh emotions, lies a fantastic journey waiting to be undertaken. Composed by an experienced wordsmith, that wonderful opus encourages readers on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within the material of every word. Within the mental depths of this touching review, we shall embark upon a heartfelt exploration of the book's primary themes, dissect their fascinating writing design, and fail to the strong resonance it evokes heavy within the recesses of readers' hearts.

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