

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?

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R Barnett



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Unveiling the Power of Verbal Art: An Psychological Sojourn through **Using Clues To Identify Elements Answer Key Page 50**

In some sort of inundated with displays and the cacophony of instantaneous communication, the profound power and mental resonance of verbal artistry usually disappear into obscurity, eclipsed by the constant assault of noise and distractions. However, located within the musical pages of **Using Clues To Identify Elements Answer Key Page 50**, a captivating work of literary brilliance that impulses with fresh thoughts, lies an memorable journey waiting to be embarked upon. Penned by a virtuoso wordsmith, that interesting opus courses viewers on a psychological odyssey, softly revealing the latent potential and profound influence stuck within the delicate web of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is central subjects, dissect their captivating publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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