

First 40 Elements Quiz Answer Key PDF

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Which element is a metalloid?

- A. Aluminum
- B. Silicon ✓
- C. Sulfur
- D. Argon

What is the chemical symbol for Hydrogen?

- A. H ✓
- B. He
- C. Hy
- D. Hg

Explain why elements in the same group of the periodic table have similar chemical properties.

Elements in the same group of the periodic table have similar chemical properties due to their identical number of valence electrons, leading to similar reactivity and the types of bonds they can form.

Describe the significance of the atomic number for an element.

The atomic number of an element is the number of protons found in the nucleus of an atom of that element, which uniquely identifies the element and determines its chemical properties.

Why are noble gases considered inert, and how does this property affect their applications?

Noble gases are considered inert because they have a full valence shell of electrons, making them stable and unreactative.



B. Titanium ✓
C. Chlorine
D. Iron ✓
Which element is found in the second period and is a nonmetal?
A. Lithium
B. Beryllium
C. Boro
D. Nitrogen ✓
Which element is known for being highly reactive with water?
A. Iron
B. Helium
C. Sodium ✓
D. Carbon
Which element is a noble gas?
A. Helium ✓
B. Hydrogen
B. Hydrogen C. Lithium
C. Lithium
C. Lithium
C. Lithium
C. Lithium D. Oxygen
C. Lithium D. Oxygen Which of the following elements are alkali metals? (Select all that apply)
C. Lithium D. Oxygen Which of the following elements are alkali metals? (Select all that apply) A. Lithium ✓
C. Lithium D. Oxygen Which of the following elements are alkali metals? (Select all that apply) A. Lithium ✓ B. Sodium ✓
C. Lithium D. Oxygen Which of the following elements are alkali metals? (Select all that apply) A. Lithium ✓ B. Sodium ✓ C. Potassium ✓
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Which of the following elements are transition metals? (Select all that apply)

A. Scandium ✓

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B. Helium ✓
C. Oxygen ✓
D. Magnesium
Which of the following elements are halogens? (Select all that apply)
A. Fluorine ✓
B. Chlorine ✓
C. Argon
D. lodine
Which element has the atomic number 6?
A. Nitrogen
B. Oxygen
C. Carbon ✓
D. Borom
Discuss the trend in reactivity observed in alkali metals as you move down the group.
The trend in reactivity of alkali metals increases as you move down the group.
What are some common uses of Silicon in modern technology?
Some common uses of Silicon in modern technology include semiconductors in computer chips,
solar cells for renewable energy, and various electronic components.
Provide a brief explanation of how the periodic table is organized and the importance of this organization in chemistry.
The periodic table is organized in rows (periods) by increasing atomic number and in columns (groups) by similar chemical properties, allowing chemists to predict the behavior of elements and their compounds.
Which element is commonly used in balloons due to its inertness?

A. Hydrogen ✓

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A. Hydrogen
B. Helium ✓
C. Oxygen
D. Nitrogen
What is the atomic number of Neon?
A. 8
B. 9
C. 10 ✓
D. 11
Which elements are found in the second period of the periodic table? (Select all that apply)
Which elements are found in the second period of the periodic table? (Select all that apply) A. Lithium \checkmark
A. Lithium ✓
A. Lithium ✓ B. Beryllium ✓
A. Lithium ✓ B. Beryllium ✓ C. Boro ✓
A. Lithium ✓ B. Beryllium ✓ C. Boro ✓
A. Lithium ✓ B. Beryllium ✓ C. Boro ✓
A. Lithium ✓ B. Beryllium ✓ C. Boro ✓ D. Calcium
A. Lithium ✓ B. Beryllium ✓ C. Boro ✓ D. Calcium Which elements are considered nonmetals? (Select all that apply)
A. Lithium ✓ B. Beryllium ✓ C. Boro ✓ D. Calcium Which elements are considered nonmetals? (Select all that apply) A. Oxygen ✓
A. Lithium ✓ B. Beryllium ✓ C. Boro ✓ D. Calcium Which elements are considered nonmetals? (Select all that apply) A. Oxygen ✓ B. Nitrogen ✓