

A Periodic Table Logic Problem

Purpose: In this activity you will use a set of clues to identify a set of unknown elements in a periodic table. The elements are the elements with atomic numbers 1-20 and 31-36. A letter of the alphabet is used to represent each unknown element. The letter designation is not related to an element's chemical symbol. Each clue refers to a property of an element or a relationship an element has to other elements in the periodic table. Along with logic and knowledge of properties, you will use the periodic trends to solve the puzzle.

Grade: Neatness and completeness count.

Procedure: Use the following trend clues to place the elements in their proper places on the provided periodic table. Try to identify the elements with direct clues first. For example, B is a direct clue because it identifies only one element.
Group 1 Group 2 Group 13 Group 14 Group 15 Group 16 Group 17 Group 18

Work copy

Group 1	Group 2		Group 13	Group 14	Group 15	Group 16	Group 17	Group 18
–								–
–	–	–	–	–	–	–	–	–
–	–		–	–	–	–	–	–
–	–		–	–	–	–	–	–

A – Has one of the highest electronegativities on the table that is NOT a halogen.

B – Has one electron in a 3p orbital.

C – Has five electrons in the 4th energy level.

D – Forms the smallest 2+ ion.

E – Transition Metals are found in these groups

F – Electron configuration is $1s^2 2s^2 2p^6 3s^2 3p^3$

G – The most electronegative element.

H – An ion of this element with a 2+ charge has 18 electrons.

I – This group is known as the Halogens

J – It's shorthand electron configuration must have element M in brackets

Elements Of The Periodic Table Logic Questions

S Ashworth



Elements Of The Periodic Table Logic Questions:

This book delves into Elements Of The Periodic Table Logic Questions. Elements Of The Periodic Table Logic Questions is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Elements Of The Periodic Table Logic Questions, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Elements Of The Periodic Table Logic Questions
 - Chapter 2: Essential Elements of Elements Of The Periodic Table Logic Questions
 - Chapter 3: Elements Of The Periodic Table Logic Questions in Everyday Life
 - Chapter 4: Elements Of The Periodic Table Logic Questions in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Elements Of The Periodic Table Logic Questions. The first chapter will explore what Elements Of The Periodic Table Logic Questions is, why Elements Of The Periodic Table Logic Questions is vital, and how to effectively learn about Elements Of The Periodic Table Logic Questions.
 3. In chapter 2, this book will delve into the foundational concepts of Elements Of The Periodic Table Logic Questions. The second chapter will elucidate the essential principles that must be understood to grasp Elements Of The Periodic Table Logic Questions in its entirety.
 4. In chapter 3, the author will examine the practical applications of Elements Of The Periodic Table Logic Questions in daily life. This chapter will showcase real-world examples of how Elements Of The Periodic Table Logic Questions can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Elements Of The Periodic Table Logic Questions in specific contexts. This chapter will explore how Elements Of The Periodic Table Logic Questions is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Elements Of The Periodic Table Logic Questions. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Elements Of The Periodic Table Logic Questions.

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