

Name: _____
Date: _____ Period: _____

Chemistry: *The Periodic Table*

Directions: Answer each of the following questions. You need not use complete sentences.

What is a period? How many are there in the periodic table?

A period is a row of elements on the periodic table, in which the elements are ordered one proton more each place from left to right. A period also often helps to represent an electron energy level and the order in which electrons are filled into their sublevels. There are 7 periods.

What is a group (also called a family)? How many are there in the periodic table?

Groups are the columns that are found top to bottom in the table. They show elements that have the same sublevel and number of electrons in their outer shell, valence electrons. Often elements in a group share any similar chemical properties because of this. There are 18 groups in the periodic table.

State the number of valence electrons in an atom of:

a. sulfur
6

b. calcium
2

c. chlorine
7

d. arsenic
5

Give the names and chemical symbols for the elements that correspond to these atomic numbers:

a. 10

Neon, Ne

b. 18

Argon, Ar

c. 36

Krypton, Kr

d. 90

Thorium, Th

List, by number, both the period and group of each of these elements.

	Symbol	Period	Group
a. beryllium	Be	2	2
b. iron	Fe	4	8
c. lead	Pb	6	14

Which of the following pairs of elements belong to the same period?

a. Na and Cl

b. Na and Li

c. Na and Cu

d. Na and Ne

Which of the following pairs of elements belong to the same group?

a. H and He

b. Li and Be

c. C and Pb

d. Ga and Ge

Would you expect strontium to be, chemically, more similar to calcium or rubidium and WHY?

Calcium, because they share a common amount of valence electrons. Valence electrons are the main contributor to chemical properties and how elements interact with other matter. Both strontium and calcium have two electrons on the the "s" sublevel, $5s^2$ and $4s^2$

What are the Group 1 elements called?

Periodic Tables Most Wanted Worksheet Answers

E Durkheim



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Table of Contents Periodic Tables Most Wanted Worksheet Answers

1. Understanding the eBook Periodic Tables Most Wanted Worksheet Answers
 - The Rise of Digital Reading Periodic Tables Most Wanted Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Periodic Tables Most Wanted Worksheet Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Periodic Tables Most Wanted Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Periodic Tables Most Wanted Worksheet Answers
 - Personalized Recommendations
 - Periodic Tables Most Wanted Worksheet Answers User Reviews and Ratings
 - Periodic Tables Most Wanted Worksheet Answers and Bestseller Lists
5. Accessing Periodic Tables Most Wanted Worksheet Answers Free and Paid eBooks

- Periodic Tables Most Wanted Worksheet Answers Public Domain eBooks
 - Periodic Tables Most Wanted Worksheet Answers eBook Subscription Services
 - Periodic Tables Most Wanted Worksheet Answers Budget-Friendly Options
6. Navigating Periodic Tables Most Wanted Worksheet Answers eBook Formats
- ePub, PDF, MOBI, and More
 - Periodic Tables Most Wanted Worksheet Answers Compatibility with Devices
 - Periodic Tables Most Wanted Worksheet Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Periodic Tables Most Wanted Worksheet Answers
 - Highlighting and Note-Taking Periodic Tables Most Wanted Worksheet Answers
 - Interactive Elements Periodic Tables Most Wanted Worksheet Answers
8. Staying Engaged with Periodic Tables Most Wanted Worksheet Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Periodic Tables Most Wanted Worksheet Answers
9. Balancing eBooks and Physical Books Periodic Tables Most Wanted Worksheet Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Periodic Tables Most Wanted Worksheet Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Periodic Tables Most Wanted Worksheet Answers
- Setting Reading Goals Periodic Tables Most Wanted Worksheet Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Periodic Tables Most Wanted Worksheet Answers
- Fact-Checking eBook Content of Periodic Tables Most Wanted Worksheet Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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