

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 Table Key Answers

**Tracy Budd, Heather Craven, Marc
Davis, Mitchel Fedak, John P.
Frade, Bernice Goldberg, Gary
Land, Carol Rush**

Periodic Table Key Answers:

Periodic Table Key Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Periodic Table Key Answers : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Periodic Table Key Answers : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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