

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?

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**National Institute of Standards and
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