

Atomic Structure Homework

Use a periodic table to help you answer the following questions on the rows and groups in the periodic table:

1. Give the name of the element which is found in:
 - a. Period 2, group 2

 - b. Period 3 and group 15

 - c. Period 4 and group 13

 - d. Period 6 and group 11

 - e. Period 4 and group 6

2. Give the period and group number for the following elements:
 - a. Magnesium

 - b. Oxygen

 - c. Silicon

 - d. Boron

 - e. Argon

3. How many valence electrons will atoms in group 16 of the periodic table have?

4. How many electron shells will elements in the 3rd period of the periodic table have?

Name: _____ Period: _____ Due Date: _____

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5. How many electrons will atoms in group 2 of the periodic table typically have?

6. Compare the number of valence electrons of atoms which are metal elements to those which are non-metals, in the first 20 elements.

7. Describe the relationship between the number of valence electrons in the elements of the periodic table and the groups and periods in the table.