

5.4

THE PERIODIC TABLE: ORGANIZING THE ELEMENTS

SECTION REVIEW

Objectives

- Describe the origin of the periodic table
- Identify the position of groups, periods, and the transition metals in the periodic table

Key Terms

- | | | |
|---------------------------|---------------------------|---------------|
| • periodic table | • metals | • nonmetals |
| • periods | • alkali metals | • halogens |
| • periodic law | • alkaline earth metals | • noble gases |
| • group | • transition metals | • metalloids |
| • representative elements | • inner transition metals | |

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

- The periodic table organizes the elements into vertical 1 1. _____ and horizontal 2 2. _____ in order of increasing 3 3. _____. The table is constructed so that elements that have similar chemical properties are in the same 4 4. _____. The elements in Groups 1A through 7A are called the 5 5. _____. The 6 6. _____ make up Group 0. The elements in Groups 2A and 3A are interrupted in periods 4 and 5 by the 7 7. _____. and in the periods 6 and 7 by the 8 8. _____. The Group 1A elements are called the 9 9. _____, and the Group 2A elements are called the 10 10. _____. The nonmetals of 11 11. _____ are called the halogens. Elements with properties that are intermediate between those of metals and nonmetals are called 12 12. _____.

Periodic Table Section Review Answer Key

Kathleen Armour

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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