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Chemistry Worksheet – Reference: Chapter 5

The Periodic Law

Please complete this worksheet using your chemistry textbook as a guide. For instructions on downloading the textbook, go to Mr. Cline's website, select your chemistry class, then choose the document entitled "Instructions for Downloading the Chemistry Textbook" listed under today's date.

1. Who is credited with developing a method that led to the determination of standard relative atomic masses?
2. Who discovered the periodic law?
3. Who established atomic numbers as the basis for organizing the periodic table?
4. State the periodic law.
5. Name three sets of elements added to the periodic table after Mendeleev's time.
6. How do the atomic numbers of the elements within each of Groups 1, 2, and 13–18 of the periodic table vary? (Refer to Figure 5-4 in the textbook as a guide.)
7. Into what four blocks can the periodic table be divided to illustrate the relationship between the elements' electron configurations and their placement in the periodic table?
8. What name is given to each of the following groups of elements on the periodic table:
 - a. Group 1
 - b. Groups 3–12
 - c. Group 18
 - d. Group 2
 - e. Group 17