

Classification of Elements: The Periodic Table
Study Guide
7th Grade

- A. The British scientist who discovered the atomic number of elements is _____.
- B. The number at the top of each square of the periodic table is the _____.
- C. The horizontal rows of elements in the periodic table are called _____.
- D. The elements to the left of the dark line on the periodic table are _____.
- E. Elements within the same vertical column have similar but not identical _____.
- F. The elements in a _____ (periods or columns) are not alike in properties.
- G. Elements that do not combine with other elements except under specially controlled conditions belong to the _____.
- H. The elements that are active, strongly nonmetallic, and react readily with metals to form salt are the _____.
- I. Elements that are never found free in nature but are always found combined in a compound are the _____.
- J. The two rows that stand alone at the bottom of the periodic table are _____.
- K. The _____ law states that the physical and chemical properties of the elements are functions of their atomic number.
- L. The atomic number, chemical symbol, _____, and atomic mass are found in each element square of the periodic table.
- M. Metals that can be drawn into thin wire are described as _____.
- N. _____ is the most abundant element in the Earth's atmosphere.
- O. The _____ electron are those found in the outermost energy level of an atom.
- P. In the modern periodic table, elements are arranged in order of increasing atomic _____.
- Q. Elements can be classified as metals, nonmetals or _____.
- R. Metals are good conductors of _____ and _____.
- S. Luster is a _____ property of metal.
- T. _____ include fluorine, chlorine, bromine, iodine, and astatine.
- U. Which family contains elements with one valence electron? _____
- V. Which family contains the most active nonmetals? _____
- W. Which family of elements gains electrons most easily? _____
- X. Which family contains the second most active metals? _____

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Y. Which family contains elements that are highly unreactive? _____

Z. Which family of elements loses electrons most easily? _____