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An atom's outermost electron shell

INTRODUCTION TO CHEMISTRY Mendeleev made an early periodic table. In the modern periodic table, elements are arranged in order of atomic number in periods and groups. Electronic arrangements model how electrons are arranged. Elements consist of only one kind of atom and cannot be decomposed into simpler substances. Our planet is made up of some 90 elements. (Tiny amounts — sometimes only a few atoms — of additional elements have been made in nuclear physics laboratories, but they play no role in our story). Of these 90, only 25 or so are used to build living things. The table shows the 11 most prevalent elements in the lithosphere (the earth's crust) and in the human body. Elemental composition of the lithosphere and the human body. Each number represents the percent of the total number of atoms present. For example, 47 of every 100 atoms found in a representative sample of the lithosphere are oxygen while there are only 19 atoms of carbon in every 10,000 atoms of lithosphere. Composition of the Lithosphere Composition of the Human Body Oxygen 47 Hydrogen 63 Silicon 28 Oxygen 25.5 Aluminum 7.9 Carbon 9.5 Iron 4.5 Nitrogen 1.4 Calcium 3.5 Calcium 0.31 Sodium 2.5 Phosphorus 0.22 Potassium 2.5 Chlorine 0.03 Magnesium 2.2 Potassium 0.06 Titanium 0.46 Sulfur 0.05 Hydrogen 0.22 Sodium 0.03 Carbon 0.19 Magnesium 0.01 All others

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