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Table 1. Electron Configurations and Oxidation Numbers

Element Name	Atomic Number	Electron Configuration	Valence Shell	Common Oxidation Numbers
Hydrogen	1	1 s ¹	1 s ¹	+1, -1
Helium	2	1 s ²	1 s ²	0
Lithium	3	1 s ² 2 s ¹	2 s ¹	+1
Beryllium	4	1 s ² 2 s ²	2 s ²	+2
Boron	5	1 s ² 2 s ² 2 p ¹	2 s ² 2 p ¹	+3
Carbon	6	1 s ² 2 s ² 2 p ²	2 s ² 2 p ²	+4, +2, -4
Nitrogen	7	1 s ² 2 s ² 2 p ³	2 s ² 2 p ³	+5, +3, -3
Oxygen	8	1 s ² 2 s ² 2 p ⁴	2 s ² 2 p ⁴	-2
Fluorine	9	1 s ² 2 s ² 2 p ⁵	2 s ² 2 p ⁵	-1
Neon	10	1 s ² 2 s ² 2 p ⁶	2 s ² 2 p ⁶	0
Sodium	11	1 s ² 2 s ² 2 p ⁶ 3 s ¹	3 s ¹	+1
Magnesium	12	1 s ² 2 s ² 2 p ⁶ 3 s ²	3 s ²	+2
Aluminum	13	1 s ² 2 s ² 2 p ⁶ 3 s ² 3 p ¹	3 s ² 3 p ¹	+3
Silicon	14	1 s ² 2 s ² 2 p ⁶ 3 s ² 3 p ²	3 s ² 3 p ²	+4
Phosphorus	15	1 s ² 2 s ² 2 p ⁶ 3 s ² 3 p ³	3 s ² 3 p ³	+5, +3, -3
Sulfur	16	1 s ² 2 s ² 2 p ⁶ 3 s ² 3 p ⁴	3 s ² 3 p ⁴	+6, +4, +2, -2
Chlorine	17	1 s ² 2 s ² 2 p ⁶ 3 s ² 3 p ⁵	3 s ² 3 p ⁵	-1
Argon	18	1 s ² 2 s ² 2 p ⁶ 3 s ² 3 p ⁶	3 s ² 3 p ⁶	0
Potassium	19	1 s ² 2 s ² 2 p ⁶ 3 s ² 3 p ⁶ 4 s ¹	4 s ¹	+1
Calcium	20	1 s ² 2 s ² 2 p ⁶ 3 s ² 3 p ⁶ 4 s ²	4 s ²	+2

Electron configuration elements (atoms) and ions worksheet answer key. Electron configuration worksheet 3 elements (atoms) and ions answers. Electron configuration elements (atoms) and ions worksheet.

Q4: Determine the electron configuration of an aluminum atom by listing the occupancy of the electron shells in order of increasing energy. Which orbital is filled after the 2p orbital? Q9: Which of the following represents the electronic configuration of an element found in group 5A? It is excited, and one electron moves from the second electron shell to the third electron shell. Q6: How many electrons are in the outermost energy shell of promethium (element 61)? How is this expressed in electronic configuration notation? A1223SSPSP B1223SSPS C1223SSPS D1223SSPSS Q10: The aufbau process determines the order in which the electronic orbitals are filled. A1: 2, 2: 3 B5 C3, 2 D12 E2, 3 Q2: An atom has 6 electrons: 2 in the first electron shell and 4 in the second electron shell. A2: 6, 5 B8, 3 C13 D2, 4, 7 E2, 8, 3 Q5: Determine the electron configuration of a carbon atom by listing the occupancy of the electron shells, in order of increasing energy. Which orbital is filled after the 1s orbital? If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. In this worksheet, we will practice using electron shell notation to identify elements and describe the electronic configurations of atoms and ions. A1, 3, 2 B2, 4 C2, 3, 1 D1, 3, 1 E2, 4, 1 Q3: Determine the electron configuration of a helium atom by listing the occupancy of the electron shells, in order of increasing energy. Q8: Consider the following atomic diagram. How many electrons must this structure lose to form a 2+ ion? Which orbital is filled after the 3p orbital? What is the electronic configuration of the atom? If you're seeing this message, it means we're having trouble loading external resources on our website. Q1: An atom has 2 electrons in the first electron shell and 3 electrons in the second electron shell. This lesson includes 23 additional questions and 28 additional question variations for subscribers.

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