

The Periodic Table and Energy Level Models

Key Concepts:

1. Electrons surrounding an atom are located in regions around the nucleus called "_____".
2. An energy level represents the 3 – dimensional space surrounding the nucleus where electrons are _____.
3. The _____ level is _____. The second energy level is _____ than the rest. The third is a little farther away than the second, and so on.
4. Each energy level can accommodate or _____ a different _____ before additional electrons begin to go into the _____.
5. When the _____ level has _____ electrons, the next electrons go into the second energy level until the _____ has _____ electrons.
6. When the _____ has _____ electrons, the next electrons go into the third energy level until the _____ has _____ electrons.
7. When the _____ has _____ electrons, the next _____ electrons go into the _____.
8. The electrons in the energy level furthest from the nucleus are called _____.
9. Atoms in the same _____ (group) in the periodic table have the same number of _____.

The Periodic Table and Energy Level Models: Processing

Directions: Choose one atom from period 1, one atom from period 2, and one atom from period 3 to draw. Add the correct number of protons and neutrons in the nucleus and add the correct number of electrons in energy level. LABEL the atoms with their name.

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