RADII TRENDS - GENERAL CHEMISTRY FORMATIVE ASSESSMENT - KEY



Concepts: Electron Configuration & Atomic Orbitals

TASK

Create three atoms in order of decreasing atomic radius in the space below. You have a **total of 20 protons** all of which you must use. As you fill each orbital, number each electron in the order that it is added. The first electron has already been added for you. Once you

finish, write out the electron configuration, determine the number of valence electrons, and identify the number of energy levels in the space provided.

Multiple Correct Answers - Example Shown Below

LARGEST ATOMIC RADIUS

Proton Number <u>3</u>

Element Name & Symbol

Lithium

Electron Configuration

1s²2s¹

Valence Electrons 1

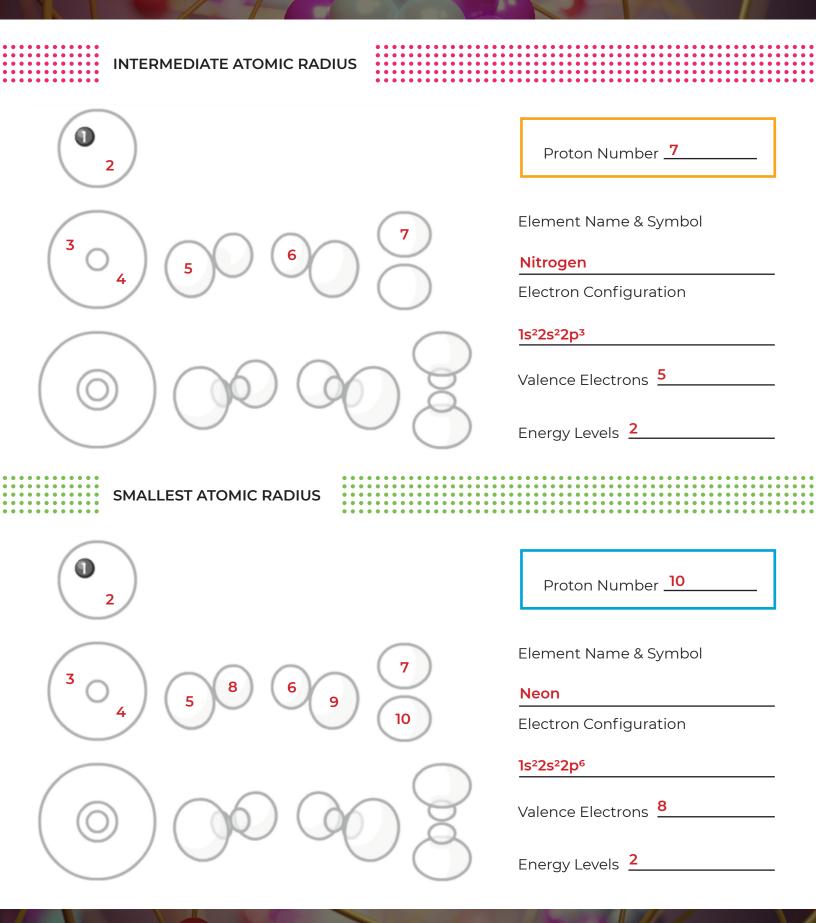
Energy Levels 2



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