



STUDENT CHECK FOR UNDERSTANDING

**Concepts:
Electron
Configuration &
Atomic Orbitals**

TASK

Match the atoms that have been ordered by increasing atomic radius below with their electron configuration screenshots from the game. Once you have matched the configurations to the atom, complete the rest of the table.



Increasing Atomic Radius

Electron Configuration #1

This diagram shows the first 20 orbitals. Orbitals 1-10 are filled with electrons. Orbitals 11-18 are partially filled. Orbitals 19 and 20 are empty and locked.

Electron Configuration #2

This diagram shows the first 20 orbitals. Orbitals 1-10 are filled with electrons. Orbitals 11-18 are partially filled. Orbitals 19 and 20 are empty and locked.

Electron Configuration #3

This diagram shows the first 9 orbitals. Orbitals 1-4 are filled with electrons. Orbitals 5-9 are partially filled.

Electron Configuration #4

This diagram shows the first 9 orbitals. Orbitals 1-4 are filled with electrons. Orbitals 5-9 are partially filled.

Electron Configuration #5

This diagram shows the first 9 orbitals. Orbitals 1-4 are filled with electrons. Orbitals 5-9 are partially filled.

Atom	A	B	C	D	E
Matching Electron Configuration (1,2,3,4 or 5)					
Written Electron Configuration (1s ² ...)					
Number of Energy Levels					
Atomic Number					
Element Name					
Chemical Symbol					