Bell Ringer #15:

Socrative Room Name: LEVEL70WARRIOR

Electron Configuration Part 2

http://drmoad.weebly.com/

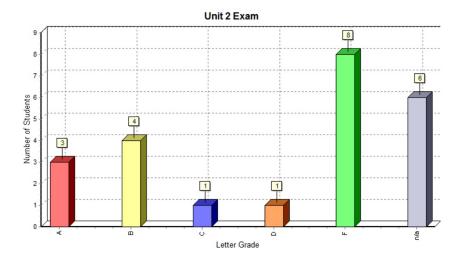
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Agenda

Bell Ringer
Exam 2 Results

Electron Configuration Notes
Whiteboard Activity
Flame Tests Intro & Demo
Flame Test Lab
Exit Ticket

Unit 2 Exam



Class Average: 64.76% D

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Electron Configuration (Notes)

- All of chemistry and chemical reactions have to do with electrons and how they behave.
- Electrons occupy specific orbitals around the nucleus of an atom.
- These orbitals have known shapes and and we classify these as s, p, d, and f.
- Electrons fill these orbitals in a known pattern. You are expected to become familiar with this pattern!

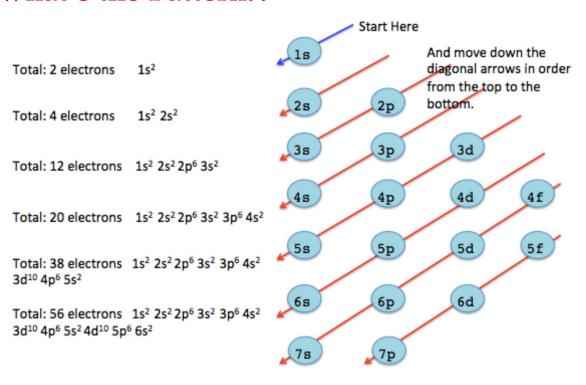
Example Test Question:

• Write out the complete electron configuration for Seaborgium (Sg) element 106.

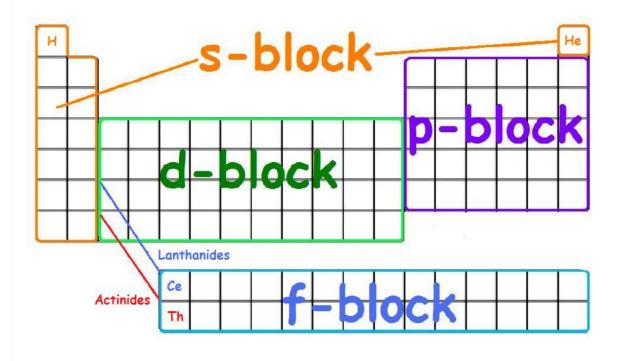
 $1s^22s^22p^63s^23p^64s^23d^{10}4p^65s^24d^{10}5p^66s^24f^{14}5d^{10}6p^67s^25f^{14}6d^4$

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What's the Pattern?:



Electron Configuration (Be able to draw this!)



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Electron Configuration



Some Examples: Write the full electron configurations for: Beryllium Oxygen Magnesium Sulfur

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Whiteboard Examples:

Write the full electron configurations for:

Boron

Sodium

Argon

Titanium

Whiteboard Examples:

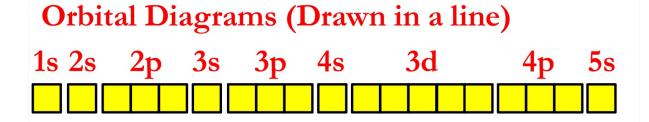
Write the full electron configurations for: Zinc

Xenon

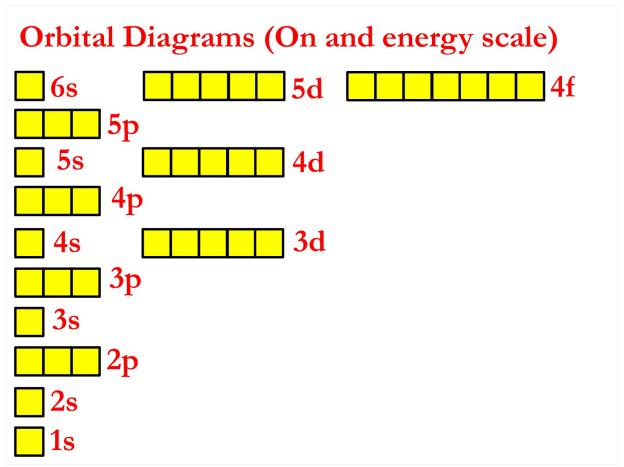
Which atom has this electron configuration?

1s² 2s² 2p⁶ 3s² 3p⁶

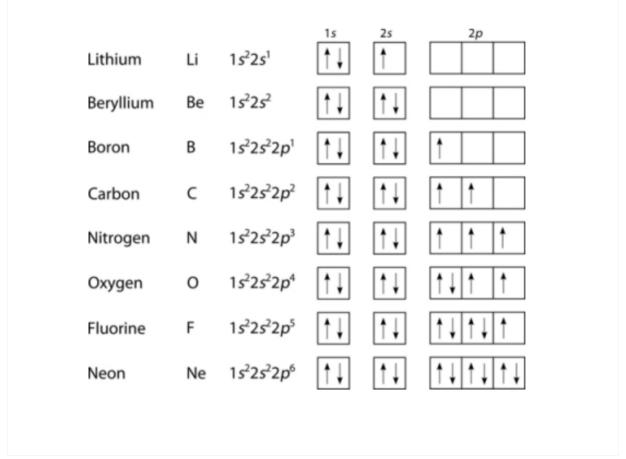
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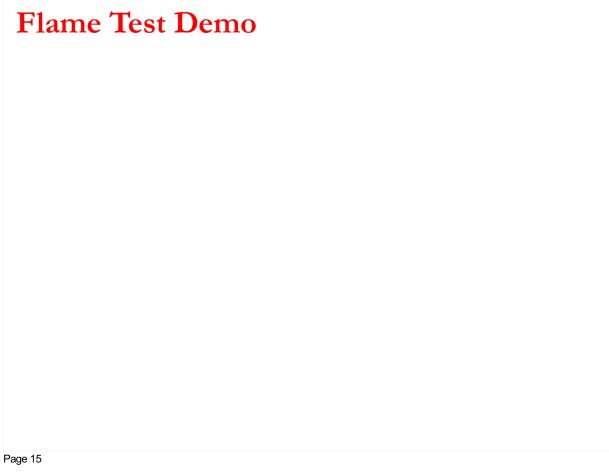


https://chemistry.boisestate.edu/richardbanks/inorganic/atomic%20structure/orbboxanim.gif



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Flame Test Lab

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Socrative Room Name: LEVEL70WARRIOR

Electron Configuration

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