

Name: _____ Date: _____ Per: _____

Electron Configuration and Quantum Theory Worksheet

Complete the following:

Element	Electron configuration	Orbital Notation	Noble Gas Notation	Lewis Electron Dot Notation
1. Chromium				
2. Tin	Not needed	Not Needed		
3. Aluminum				
4. Helium				
5. Gold	Not Needed	Not Needed		

5. What are the elements that have the following electron configurations?

a) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 5d^1 4f^4$ _____

b) $1s^2 2s^2 2p^4$ _____

c) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^7$ _____

d) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6$ _____

6. How many orbitals does each of the following subshells have?

a) s _____ b) d _____ c) f _____ d) p _____

7. How many electrons does each of the following subshells have?

a) s _____ b) d _____ c) f _____ d) p _____

8. How many electrons can occupy each of the following energy levels?

a) l _____ b) 6 _____ c) 3 _____ d) 4 _____

9. Describe the property of the electron that each of the four Quantum Numbers exhibit.

n - Principal Quantum Number

l - Angular Momentum Quantum Number

ml - Magnetic Quantum Number

Quantum Theory And The Atom Worksheet Answers

EW Minium



Quantum Theory And The Atom Worksheet Answers:

Reviewing **Quantum Theory And The Atom Worksheet Answers**: Unlocking the Spellbinding Force of Linguistics

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