

# 7&8 • Atomic Structure & Periodicity

## PRACTICE TEST

$$Rhc = A$$

$$A = 2.18 \times 10^{-18} \text{ J}$$

$$h = 6.626 \times 10^{-34} \text{ J}\cdot\text{s}$$

$$R = 1.097 \times 10^7 \text{ m}^{-1}$$

$$c = 3.00 \times 10^8 \text{ m}\cdot\text{s}^{-1}$$

$$\text{mass of an electron} = 9.11 \times 10^{-31} \text{ kg}$$

1. What wavelength corresponds to a frequency of  $8.22 \times 10^9 \text{ Hz}$ ?

$$\lambda = \frac{c}{\nu}$$

- a) 0.307 m                      d) 0.110 m

- b) 0.0365 m                      c) 27.4 m

- c) 0.122 m                       $\frac{3.00 \times 10^8 \text{ m}\cdot\text{s}^{-1}}{8.22 \times 10^9 \text{ s}^{-1}} = 0.036496 \text{ m}$

2. A radio station transmits at 110 MHz ( $110 \times 10^6 \text{ Hz}$ ). What wavelength is this radio wave?

- a)  $3.65 \times 10^{-5} \text{ m}$                       c)  $3.81 \times 10^{-5} \text{ m}$

- b) 3.30 m                      d) 2.73 m

$$\lambda = \frac{c}{\nu} = \frac{3.00 \times 10^8 \text{ m}\cdot\text{s}^{-1}}{110 \times 10^6 \text{ s}^{-1}} = 2.73 \text{ m}$$

3. Which one of the following is NOT a proper unit for frequency?

- a) Hz

- b)  $\text{s}^{-1}$

- c)  $\text{m}\cdot\text{s}^{-1}$

- d)  $\frac{1}{\text{sec}}$

velocity

4. Calculate the wavelength of the fourth line in the Balmer series (the visible series) of the hydrogen spectrum.

$$n=6 \rightarrow n=2$$

$$E_6 = -2.18 \times 10^{-18} \text{ J} - E_2 = -2.18 \times 10^{-18} \text{ J}$$

- a) 0.12334 m

- d)  $4.1029 \times 10^{-7} \text{ m}$

- b) 24.373 m

- e) 36.559 m

- c)  $2.7353 \times 10^{-7} \text{ m}$

$$E = \frac{hc}{\lambda} \quad \lambda = \frac{hc}{E} = 4.1 \times 10^{-7} \text{ m}$$

$$\Delta E = 4.84 \times 10^{-19} \text{ J}$$

5. What is the relationship between the energy of a photon of light and its frequency?

- a)  $E = \nu$

- d)  $E = \frac{1}{h\nu}$

- b)  $E = \frac{h}{\nu}$

- e)  $E = \frac{\nu}{h}$

- c)  $E = h\nu$

6. What is the energy needed to raise an electron in the hydrogen atom from the second energy level to the third energy level?

$$\Delta E = E_3 - E_2$$

- a)  $1.52 \times 10^{-4} \text{ J}$

- d)  $4.48 \times 10^{-19} \text{ J}$

- b)  $3.63 \times 10^{-19} \text{ J}$

- e)  $3.03 \times 10^{-19} \text{ J}$

- c)  $2.18 \times 10^{-19} \text{ J}$

$$\frac{-2.18 \times 10^{-18} \text{ J}}{4} - \frac{-2.18 \times 10^{-18} \text{ J}}{9}$$

7. What is the de Broglie wavelength of an electron moving at 80.0% the speed of light.

- a)  $3.03 \times 10^{-12} \text{ m}$

- c)  $3.30 \times 10^{11} \text{ m}$

- b)  $2.42 \times 10^{-12} \text{ m}$

- d)  $1.59 \times 10^{-25} \text{ m}$

$$\lambda = \frac{h}{mv} = \frac{6.626 \times 10^{-34} \text{ J}\cdot\text{s}}{9.11 \times 10^{-31} \text{ kg} \cdot 0.8 \cdot 3.00 \times 10^8 \text{ m}\cdot\text{s}^{-1}}$$

8. What resultant is expected from the interference of the two waves shown below?



- a)

- c)

- b)

- d)

9. Which quantum number determines the subshell occupied by an electron (s, p, d, f, etc.)?

- a)  $n$

- c)  $m_l$

- b)  $\ell$

- d)  $m_s$

# Electron Configuration Chem Worksheet 5 6 Answer Key

**G Orfield**



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### **Table of Contents Electron Configuration Chem Worksheet 5 6 Answer Key**

1. Understanding the eBook Electron Configuration Chem Worksheet 5 6 Answer Key
  - The Rise of Digital Reading Electron Configuration Chem Worksheet 5 6 Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Electron Configuration Chem Worksheet 5 6 Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Electron Configuration Chem Worksheet 5 6 Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electron Configuration Chem Worksheet 5 6 Answer Key

- Personalized Recommendations
  - Electron Configuration Chem Worksheet 5 6 Answer Key User Reviews and Ratings
  - Electron Configuration Chem Worksheet 5 6 Answer Key and Bestseller Lists
5. Accessing Electron Configuration Chem Worksheet 5 6 Answer Key Free and Paid eBooks
    - Electron Configuration Chem Worksheet 5 6 Answer Key Public Domain eBooks
    - Electron Configuration Chem Worksheet 5 6 Answer Key eBook Subscription Services
    - Electron Configuration Chem Worksheet 5 6 Answer Key Budget-Friendly Options
  6. Navigating Electron Configuration Chem Worksheet 5 6 Answer Key eBook Formats
    - ePub, PDF, MOBI, and More
    - Electron Configuration Chem Worksheet 5 6 Answer Key Compatibility with Devices
    - Electron Configuration Chem Worksheet 5 6 Answer Key Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Electron Configuration Chem Worksheet 5 6 Answer Key
    - Highlighting and Note-Taking Electron Configuration Chem Worksheet 5 6 Answer Key
    - Interactive Elements Electron Configuration Chem Worksheet 5 6 Answer Key
  8. Staying Engaged with Electron Configuration Chem Worksheet 5 6 Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Electron Configuration Chem Worksheet 5 6 Answer Key
  9. Balancing eBooks and Physical Books Electron Configuration Chem Worksheet 5 6 Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Electron Configuration Chem Worksheet 5 6 Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Electron Configuration Chem Worksheet 5 6 Answer Key
    - Setting Reading Goals Electron Configuration Chem Worksheet 5 6 Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Electron Configuration Chem Worksheet 5 6 Answer Key

- Fact-Checking eBook Content of Electron Configuration Chem Worksheet 5 6 Answer Key
- Distinguishing Credible Sources

### 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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