

9. Evaluate the experiments that led to the conclusion that electrons are negatively charged particles found in all matter.

The deflection toward positively charged plates demonstrated the negatively charged nature of electrons; the fact that changing the type of electrode or the type of gas used in the cathode ray tube did not affect the ray produced led to the conclusion that electrons are present in all matter.

10. Compare the relative charge and mass of each of the subatomic particles.

Particle	Relative charge	Relative mass
Electron	-1	1/1840
Proton	+1	1
Neutron	0	-1

11. **Calculate** What is the difference expressed in kilograms between the mass of a proton and the mass of an electron?

$$1.673 \times 10^{-24} \text{ g} - 9.11 \times 10^{-28} \text{ g} = 1.672 \times 10^{-24} \text{ g} \times 1 \text{ kg}/1000 \text{ g} = 1.672 \times 10^{-27} \text{ kg}$$

## Section 4.3 How Atoms Differ

pages 115–121

### Practice Problems

pages 116–121

12. How many protons and electrons are in each atom?
- radon, 86 protons and 86 electrons
  - magnesium, 12 protons and 12 electrons
13. An atom of an element contains 66 electrons. Which element is it?  
dysprosium
14. An atom of an element contains 14 protons. Which element is it?  
silicon

15. **Challenge** Do the atoms shown in the figure to the right have the same atomic number?



Yes, 9

16. Determine the number of protons, electrons, and neutrons for isotopes b through f, in the table above. Name each isotope, and write its symbol.

	Protons and Electrons	Neutrons	Isotope	Symbol
b.	20	26	calcium-46	$^{46}_{20}\text{Ca}$
c.	8	9	oxygen-17	$^{17}_8\text{O}$
d.	26	31	iron-57	$^{57}_{26}\text{Fe}$
e.	30	34	zinc-64	$^{64}_{30}\text{Zn}$
f.	80	124	mercury-204	$^{204}_{80}\text{Hg}$

17. **Challenge** An atom has a mass number of 55. Its number of neutrons is the sum of its atomic number and 5. How many protons, neutrons, and electrons does this atom have? What is the identity of this atom?

25 protons, 25 electrons, 30 neutrons, manganese

18. Boron (B) has two naturally occurring isotopes: boron-10 (abundance = 19.8%, mass = 10.013 amu), boron-11 (abundance = 80.2%, mass = 11.009 amu). Calculate the atomic mass of boron.

$$\text{B-10 } 10.013 \text{ amu} \times 0.198 = 1.98 \text{ amu}$$

$$\text{B-11 } 11.009 \text{ amu} \times 0.802 = 8.83 \text{ amu}$$

$$\text{Atomic mass } 1.98 \text{ amu} + 8.83 \text{ amu} = 10.81 \text{ amu}$$

19. **Challenge** Nitrogen has two naturally occurring isotopes, N-14 and N-15. Its atomic mass is 14.007. Which isotope is more abundant? Explain your answer.

N-14 is more abundant because the atomic mass is closer to 14 than 15.

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### **Table of Contents Chapter 4 Atomic Structure Workbook Answers**

1. Understanding the eBook Chapter 4 Atomic Structure Workbook Answers
  - The Rise of Digital Reading Chapter 4 Atomic Structure Workbook Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 4 Atomic Structure Workbook Answers
  - 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 Chapter 4 Atomic Structure Workbook Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 4 Atomic Structure Workbook Answers
  - Personalized Recommendations
  - Chapter 4 Atomic Structure Workbook Answers User Reviews and Ratings
  - Chapter 4 Atomic Structure Workbook Answers and Bestseller Lists

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  - Chapter 4 Atomic Structure Workbook Answers Enhanced eBook Features
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  - Highlighting and Note-Taking Chapter 4 Atomic Structure Workbook Answers
  - Interactive Elements Chapter 4 Atomic Structure Workbook Answers
8. Staying Engaged with Chapter 4 Atomic Structure Workbook Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 4 Atomic Structure Workbook Answers
9. Balancing eBooks and Physical Books Chapter 4 Atomic Structure Workbook Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 4 Atomic Structure Workbook Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chapter 4 Atomic Structure Workbook Answers
  - Setting Reading Goals Chapter 4 Atomic Structure Workbook Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 4 Atomic Structure Workbook Answers
  - Fact-Checking eBook Content of Chapter 4 Atomic Structure Workbook Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
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