

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.

# Chapter 4 Atomic Structure Answers Pdf

**Arshad Iqbal**



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The Mathematics of the Periodic Table D. H. Rouvray,R. Bruce King,2006 The Periodic Table effectively embraces the whole realm of chemistry within the confines of one comparatively simple and easily understood chart of the chemical elements Over many years the Periodic Table has proven to be indispensable not only to chemists of all kinds but also to a host of other scientists including biologists geologists and physicists It is thus hardly surprising that the Periodic Table has become one of our most celebrated contemporary scientific icons In the present work various aspects of the Periodic Table that are seldom if ever featured elsewhere are given prominence The twelve presentations contained herein all have a mathematical flavour because it is the intention to highlight the often neglected mathematical features of the Periodic Table and several closely related topics The book starts out by considering predictions of what the ultimate size of the Periodic Table will be when all of the possible artificial chemical elements have been synthesised It then moves on to an examination of the nature of the periodicity extant

in the Periodic Table and some methods for the prediction of the properties of the super heavy elements The Periodic Table is next explored in various dimensions other than two The natural clustering of the elements into groups is studied by three different but complementary routes namely via the topological structures of the groups the self association of the elements as evidenced by neural network studies and information theoretical analysis of the behaviour of atoms Following a detailed investigation of the mathematical basis for the periodicity seen in atomic and molecular spectroscopy three separate presentations delve into many different aspects of the group theoretical structure of the Periodic Table The unusual combination of themes offered here will appeal to all who seek a more detailed and intimate knowledge of the Periodic Table than that available in standard texts on the subject

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