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?

1.673×10^{-24} g − 9.11×10^{-28} g = 1.672×10^{-24} g × 1 kg/1000 g = 1.672×10^{-27} 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?

a. radon, 86 protons and 86 electrons

b. 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	$^{46}_{20}$Ca
c.	8	9	oxygen-17	$^{17}_{8}$O
d.	26	31	iron-57	$^{57}_{26}$Fe
e.	30	34	zinc-64	$^{64}_{30}$Zn
f.	80	124	mercury-204	$^{204}_{80}$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.

B-10   10.013 amu × 0.198 = 1.98 amu

B-11   11.009 amu × 0.802 = 8.83 amu

Atomic mass   1.98 amu + 8.83 amu = 10.81 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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