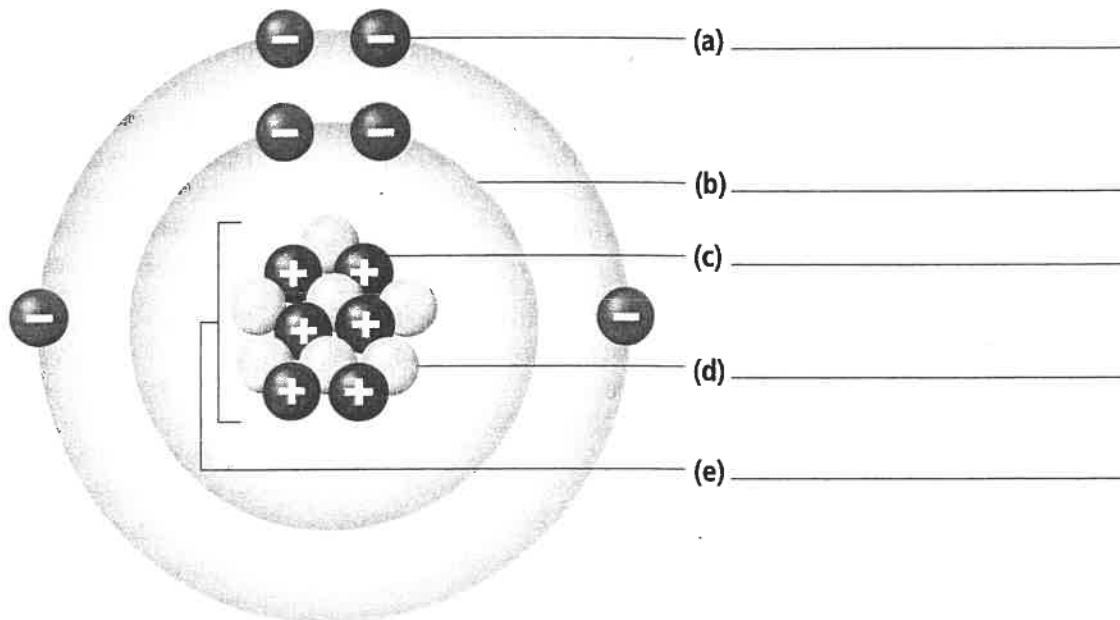


Use with textbook pages 28-33.

Atomic structure

1. Use the vocabulary terms that follow to label the parts of an atom. Place the correct term on the line next to each part of the atom. You will not need to use all the terms.

- atom
- proton
- nucleus
- neutron
- electron
- shell



2. Complete the following table describing the three subatomic particles.

	Proton	Neutron	Electron
electric charge			
location in the atom			

Use with textbook pages 28–33.

The atom

Vocabulary

Bohr	neutrons
Dalton	positive
electrons	protons
energy	shells
mass	subatomic particles
negative	Rutherford
neutral	Thomson

Use the terms in the vocabulary box to fill in the blanks. You can use each term more than once. You will not need to use every term.

- _____ suggested that matter is made up of atoms.
- _____ proposed that atoms contain negatively charged particles later called _____.
- _____ discovered the nucleus and its subatomic particles. He suggested that the nucleus was made up of positively charged particles called _____ and particles with no charge called _____.
- _____ proposed that electrons are located in _____ around the nucleus.
- Electrons have different amounts of _____ and can jump back and forth between the energy levels.
- All atoms are made up of three _____: protons, electrons, and neutrons.
- Protons have a _____ charge, electrons have a _____ charge, and _____ have no electric charge.
- _____ and _____ cluster together to form the nucleus of an atom.