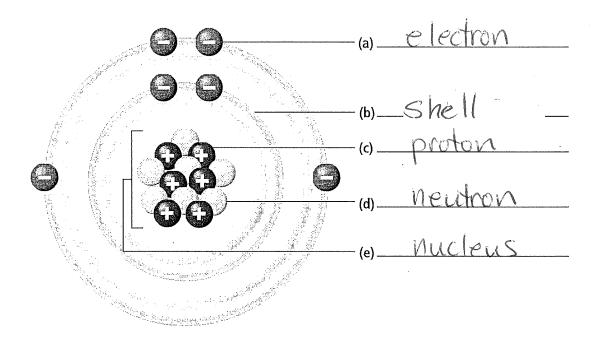
Use with textbook pages 28-33.

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
- neutron
- proton
- electron
- nucleus
- shell



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

	Proton	Neutron	Electron	
electric charge	+	neutral	**************************************	·
location in the atom	in nucleus	innucleus	outside nu	cleus

Date

Section 1.3

Use with textbook pages 28–33.

The atom

Vocabulary				
Bohr Dalton electrons energy mass negative neutral			neutrons positive protons shells subatomic particles Rutherford Thomson	
Use the terms in than once. You w			in the blanks. You can	use each term more
1. Daltor	1	_ suggeste	d that matter is made up	o of atoms.
	SOM called	I	that atoms contain neg	atively charged
particles. He s particles called	uggested that	the nucleus	d the nucleus and its su was made up of position and particles with	vely charged
4. Bohr Shells			that electrons are locat e nucleus.	ed in
5. Electrons have and forth between			energy	and can jump back
6. All atoms are reputerons.	nade up of thre	ee <u>SW</u>	atomic particles p	protons, electrons, and
7. Protons have a	<u> </u>	charge, a	charge, electrons	have a have no
8. <u>Pretons</u> form the nucle			newhors	_ cluster together to

N	ar	Υ	10

Date

Comprehension
Section 1.3

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Contributions to atomic theory

Sc	ientist	
Ru	hr Iton therford omson	
Ma Ide	atch each scientist to the statements describing his contribution to the atomic tentify who was the first to propose these ideas. Each scientist may be used more.	heory. e than
1.	Atoms cannot be created, destroyed, or divided into smaller particles.	
2.	Electrons occupy specific energy levels or shells.	
3.	Most of the mass of the atom is in the tiny, dense, positively charged nucleus.	
4.	Most of the atom is empty space.	
5,	All matter is made of small particles called atoms.	
6.	All atoms of the same element are identical.	
7.	Atoms contain negatively charged particles.	
	The nucleus contains positively charged particles called protons and particles velectric charge called neutrons.	vith no
9,	Different elements combine together to form compounds.	
10. l	Electrons move around a central nucleus.	

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		•	
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