	Development of Ator	nic Theory
Fill in the blanks	in the following paragraph.	
More than 200	proposed the	
existence of ve	ry small, indivisible particles, ea	ch of which was called a(n)
<i>A</i>	An atomic theory would be propo	sed years later by
It was later pro	pposed that the atom was not inc	livisible, but is made up of
smaller particl	es, each of which is called a(n) _	
These particles	s include the negatively-charged	discovered
by	, the positively-charged	and the uncharged
	discovered by	The latter two particles are
present in the	, or center, of the at	om, which was discovered by
	in his gold foil experiment.	
The number of	positively-charged particles in a	nn atom is its
	, while the sum of the positively	-charged particles and the
uncharged par	ticles is its	Atoms that have the same
number of pos	itively-charged particles but diff	erent numbers of uncharged
particles are ca	alled	
The Danish ph	ysicist proposed an a	atomic model in which the
electrons orbit	the nucleus without losing ener	gy. Each possible orbit was
also called a(n)	

 ${\bf Chemistry Learner.com}$

Date: _____

Name:

Development of Atomic Theory
Answers
More than 2000 years ago, Greek philosopher <u>Democritus</u> proposed the
existence of very small, indivisible particles, each of which was called a(n)
atom . An atomic theory would be proposed years later byDalton
It was later proposed that the atom was not indivisible, but is made up of
smaller particles, each of which is called a(n) <u>subatomic particle</u> .
These particles include the negatively-charged <u>electron</u> discovered
by Thomson , the positively-charged proton and the uncharged
neutron discovered by Chadwick . The latter two particles are
present in the nucleus , or center, of the atom, which was discovered by
Rutherford in his gold foil experiment.
The number of positively-charged particles in an atom is its atomic
number , while the sum of the positively-charged particles and the
uncharged particles is its <u>mass number</u> . Atoms that have the same
number of positively-charged particles but different numbers of uncharged
particles are called isotopes .
The Danish physicist Bohr proposed an atomic model in which the
electrons orbit the nucleus without losing energy. Each possible orbit was
also called a(n) energy level .
the control of the co

 ${\bf Chemistry Learner.com}$

Name: _____ Date: _____