Name	Class	Date
Skills Wo		
Dire	cted Reading A	
	otou ittouumig /	
	n: Development of the A	Atomic Theory
1.	The word <i>atom</i> comes from the a. "dividable." b. "invisible." c. "hard particles." d. "not able to be divided."	Greek word atomos, which means
3. We kn	about atoms? a. Atoms are small, soft particle b. Atoms are always standing st c. Atoms are made of a single n d. Atoms are small particles tha ow that Democritus was right to	till.
4. The sm	nallest unit of an element that ma	aintains the properties of that element is
a(n)	·	
DALTON'	S ATOMIC THEORY BASED O	N EXPERIMENTS
5	Which of the following was NO	T one of Dalton's theories?
5.	a. All substances are made of at	
	b. Atoms of the same element a	•
	c. Atoms of different elements	
6 Dolton	d. Atoms join with other atoms	
o. Danon	experimented with different suc	ostances. What did his results suggest?

Name	Class	Date	
Directed Reading A Con	ntinued		
THOMSON'S DISCOVER	RY OF ELECTRONS	3	
7. In Thomson's experin	nents with a cathode-	ray tube, he discovered that a(n)	
	charged plate a	attracted the beam. He concluded	
that the beam was made	de up of particles tha	t have	
electric charges.			
	•	s that Thomson discovered are now	
called	·		
	-	ctrons are mixed throughout an	
RUTHERFORD'S ATOMIC "SHOOTING GALLERY"			
a. He expectedb. He expectedc. He expectedd. He expected	I the particles to pass I the particles to deflet I the particles to bound I the particles to become	atherford expect the particles to do? s right through the gold foil. ect to the sides of the gold foil. nce straight back. ome negatively charged. ford's gold-foil experiment?	
WHERE ARE THE ELEC	CTRONS?		
is NOT part of a. Most of the b. The nucleus c. Positively c pushed awa d. The nucleus	that theory? atom's mass is in its is a tiny, dense, pos harged particles that y by the positive cha is is made up of proton	itively charged region. pass close by the nucleus are rges in the nucleus.	
called the			
14. What are electron clou			