Name _		
	Date	Pd

Unit 4 – Worksheet 3 – Atoms from Democritus to Dalton

Rea	ading: "Matter: Ato	oms from Demo	critus to Dalton			
Em	pedocles	Time				
1.	Empedocles argued	that all matter is	s composed of w	hat four eleme	ents?	
2.	What was one of the	problems with	Empedocles' the	eory?		
	mocritus					
3.	tiny that it			•	some point you would	reach a piece so
4.	Democritus called	these small piec	es of matter <i>ator</i>	nos, meaning		
5.	Atomos were	os were and could not be				
6.	Atomos were		to the materia	l that they mad	le up.	
To	rricelli	Time				
7.	Torricelli showed t	hat air had		_ and so must	be made of somethin	g physical.
Bei	rnoulli	Time				
8.	Air and other gases volume of space.	consist of			loosely p	packed in an empty
9.	Gas particles are co	ontinuously		and		off
	estly					
10.	Heated mercury cal		_		hat he called	
				<u> </u>		
11.	Substances cannew substances wit	h different prop	or			to form

La	voisier	Time		_	
12. Renamed Priestley's gas, wh		, which	ch means		
13.	Conservation of during a chemical r	says that reaction.	is not _	or	
Dal	lton	Time		_	
Fou	ır main concepts:				
14.	All matter is compo	osed of		_ particles called	
15. All atoms of a given element are			; atoms of different elements have different		
16.				of atoms, not the	
		of atoms	•		
17.	When elements rea			_, they react in defined, whole-number	