

Structure of the Atom

Chapter

Directions: Use the word bank to fill in the blanks to match the phrases below.

	Aristotle atom	Dalton Democritus	particle accelerator	
			quark	
	bubble chamber	electron cloud	Rutherford	
	Chadwick	orbits	Thomson	
1.		_ a device to help scien	ntists study tracks left by subatomic particles	
2.		_ a device used to caus	se high-speed collisions (without seatbelts!)	
3.		Greek philosopher who had the right idea about atoms		
4.	Greek philosopher whose idea about matter was not quite so right but everyone believed him for a couple thousand years			
5.		the area where mode	rn scientists think electrons are likely to be found	
6.		scientist who discove	ered that atoms contained electric charge	
7.		the place where Bohr thought electrons would be found		
8.		_ scientist who propos	ed one of the first models of the atom	
9.	to which it belongs	the smallest piece of matter that keeps the properties of the element		
10.		_ scientist who propos	ed the idea of a nucleus	
11.		_ one of six very small	particles that make up protons and neutrons	
12.		_ a student of Niels Bo	ohr who discovered neutrons in the nucleus	

Directions: List four past atomic models in chronological order and the correction or addition that was made to each one.

	Name of Model	Correction or Addition that was Made to the Model
13.		
14.		
15.		
16.		