Name		
	Date	Period

A Brief History of the Atom

Directions: Please fill out the following guided notes as we watch a short video describing the history of the atom.

The first recorded development in Atomic His	story can be found over
years ago in Ancient Greece. The philosophers	and
are considered to be the two	co-originators of the idea that all matter
consists of indivisible particles called	This is Greek term
"indivisible" and is where we get the word	.
Democritus' ideas surrounding the atom were reject	ed and ignored by the
	in general until the 1600s. That's over
2000 years!	
In 17 th century Europe, the	Method was
developed which required scientists to provide evi	dence to support their claims and ideas.
In, an English chemist named John	Dalton published his ideas about Atoms
with support from his research. He proposed the foll	owing:
All matter is comprised of	
 These are held together by forces of attraction 	on.
All atoms are	·
Atoms cannot be	nor
Atoms in the same ar	e identical and have the same
Atoms of different elements combine to form	
In the next 100 years, it was found that Dalton's pro	
particular, atoms are NOT	•
In the early 1900's, physicist JJ Thomson conclud	
1. Heavy part with a chai	•
Negatively charged particles called	
He described the structure of atoms by comparing it	
·	
In 1911, one of Thomson's students named Er	nest Rutherford extended this research by
firing positively-charged alpha particles into a thin s	heet of foil, and
developed the Nuclear Model of the Atom.	
This model describes atoms as having a posit	ively charged core called the
, and that electrons moved in ra	ndom orbits around it.
In 1912, Neils Bohr concluded that electrons	revolve around a center nucleus, but at
certain distances away. These electron orbits are cal	led

The History of the Atom - Main Points

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<u>Democritus</u> 400 BC - Ancient Greece	
<u>John Dalton</u> 1803-1805	
<u>JJ Thomson</u> 1897	
Ernst Rutherford 1909-1911	
<u>Neils Bohr</u> 1912-1913	
1912-1913	