# History of the Atom

#### Read the article and then answer the questions that follow.

The name "atom" was first <u>coined</u> by the ancient Greek scientist Democritus. Much later in 1803, an English schoolteacher named John Dalton proposed the idea that all matter is made of atoms. Dalton thought that atoms were small, <u>indestructible particles</u>. Then in 1897, electrons were discovered. This meant that atoms were made of even smaller <u>sub-atomic</u> particles. In 1904, J.J. Thomson developed the "plum-pudding" model of the atom which suggested that the atom was a sphere with electrons embedded in its surface.

Seven years later, a New Zealand <u>physicist</u> named Ernest Rutherford found through experimentation that the atom was mostly empty space with a very, small but <u>dense</u> centre. His proposal was that the atom contained a <u>nucleus</u> of protons surrounded by a large area containing electrons.

In 1923, the Japanese scientist, Nagaoka, suggested that electrons were moving in <u>orbits</u> around the nucleus in a way similar to that of the planets around the sun.

### Choose which meaning best suits each of these words:

9.	Coined	

\*thought of

\*minted

\*bought

### 2. Indestructible

\*not breakable

\*destroyed

\*soft

#### 3. Particle

\*crumb

\*small piece

\*apart

5. <u>Physicist</u> \*chemist

\*scientist who studies

physics

\*student

## 6. <u>Dense</u>

\*dumb

\*heavy

\*silly

## 7. <u>Nucleus</u>

\*explosive

\*centre

\*membrane