Dalton's Atomic Theory (1808)		
#	Postulate	✓ or X
1	All matter composed of extremely small particles called atoms	
2	Atoms of a given element are identical in size, mass, and other properties	
3	Atoms of different elements differ in size, mass, and other properties	
4	Atoms cannot be subdivided, created, or destroyed	
5	Atoms of different elements combine in simple whole-number ratios to form chemical compounds	
6	In chemical reactions, atoms are combined, separated, or rearranged	

## **Conclusions from the Study of the Electron**

Cathode rays have identical properties regardless of element used

Atoms are neutral

Electrons have very little mass compared to the atom's mass

## **Conclusions from the Gold Foil Experiment**

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