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

Most of the particles passed right through

A few particles were greatly deflected.

Very few were GREATLY deflected

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			

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