

Name: \_\_\_\_\_

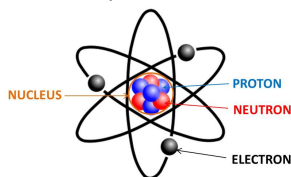
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# HOW *Sweet* IS THE ATOMIC THEORY?

**Directions:** Research each scientist that developed the atomic theory. Fill in the chart with information about each scientist. When the chart is finished, collect candies from your teacher. Inspect the candies. Cut them open if you want, match the candy to the model developed by each scientist. Here is a great website to use to fill in the chart ([thehistoryoftheatom.weebly.com](http://thehistoryoftheatom.weebly.com))

SCIENTIST AND DATE OF ATOMIC THEORY	3 FACTS ABOUT THEORY	DIAGRAM OF SCIENTIST'S MODEL OF THE ATOM	TYPE OF CANDY
DEMOCRITUS Date of atomic model:			
JOHN DALTON Date of atomic model:			
J. J. THOMSON Date of atomic model:			
ERNEST RUTHERFORD Date of atomic model:			
NIELS BOHR Date of atomic model:			
MODERN MODEL			
ERWIN SCHRODINGER Date:			
JAMES CHADWICK Date:			

# n o t e s : a t o m s & m o l e c u l e s

Atoms-	the building blocks of _____.																				
Parts of the Atom 	<ul style="list-style-type: none"><li>Nucleus- _____ of atom<ul style="list-style-type: none"><li>Protons- _____ charge (+)</li><li>Neutrons- _____ charge (0)</li></ul></li><li>Electrons- negative charge (-), move _____ the nucleus</li></ul>																				
	Fill in the chart below with charge, mass and location of the parts of the atom. <table><tr><th colspan="4">Protons, Neutrons, and Electrons</th></tr><tr><th></th><th>Charge</th><th>Mass (amu)</th><th>Location</th></tr><tr><td>Proton</td><td></td><td></td><td></td></tr><tr><td>Neutron</td><td></td><td></td><td></td></tr><tr><td>Electron</td><td></td><td></td><td></td></tr></table>	Protons, Neutrons, and Electrons					Charge	Mass (amu)	Location	Proton				Neutron				Electron			
Protons, Neutrons, and Electrons																					
	Charge	Mass (amu)	Location																		
Proton																					
Neutron																					
Electron																					
Elements	<ul style="list-style-type: none"><li>_____ Substances</li><li># of Protons = Element on the _____ table</li></ul>																				
Molecules	<ul style="list-style-type: none"><li>Two or more _____ combined</li><li>In a chemical formula, the number of atoms comes _____ the symbol</li><li>Example CO<sub>2</sub> is ____ Carbon atom and ____ Oxygen atoms</li></ul>																				
Compounds	<ul style="list-style-type: none"><li>Substance made of more than one _____.</li></ul>																				