Name:	Date:	Period:		
Atomic Addition!				
Learning Goals:				
<ul> <li>Identify additive inverses (zero pairs).</li> <li>Model addition of integers using proto</li> <li>Create a rule for adding integers.</li> </ul>	ons and electrons, and extend this to a nu	umber line.		
1. <b>Explore</b> the Build an Atom simulation for observations you have about building an ar	_	ms you choose. Write down 1-3		
Build two different atoms with a <b>positiv</b> and diagrams below.      Protons     Electrons     Neutrons	Net Charge	ation about your atoms in the tables		
Net Charge	Not Charge			
Protons Electrons Neutrons	Net Charge			

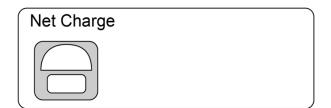
4. Build two different atoms with a **negative net charge**, then record some information about your atoms in the tables and diagrams below.

Protons Electrons Neutrons Net Charge	Net Charge	
Protons Electrons Neutrons Net Charge	Net Charge	

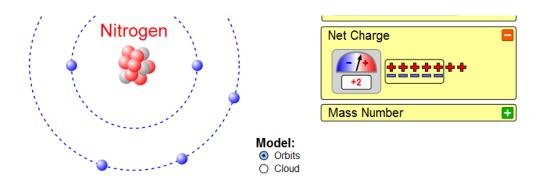
Compare your results with your partner.

- 6. Discuss with a partner and record your thoughts:
  - a) In order to have a **positive** net charge, what must be true about the number of protons and electrons?
  - b) In order to have a **negative** net charge, what must be true about the number of protons and electrons?
  - c) What could the value of a **neutron** be, if represented by an integer?
  - d) Why are some of the + and signs circled in the net charge?
- 11. Create an atom with a **net charge of zero.** What do you notice about the number of protons and electrons?

Protons	
Electrons	
Neutrons	
Net Charge	



12. The net charge of the Nitrogen atom below can be written as the addition sentence 7 + (-5) = 2



Re-write the net charge of the atoms you created above as addition sentences.