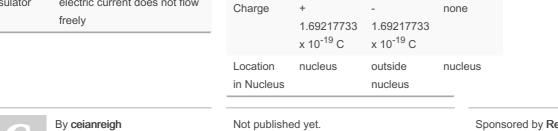


General Physics 2, 1st Quarter Cheat Sheet by ceianreigh via cheatography.com/181181/cs/37660/

Electric Charge					
Terms					
Induction	process of heating electrically conductive materials				
Conductors	materials that allow electrons to move separately from their atomic orbits				
Coulomb	SI unit of electric chagre				
Dipole	2 equal and opposite charges				
Electric Charge	electrically charged particles				
Electrons	carries the smallest type of negative charge				
Field Lines					
Benjamin Franklin	named the positive and negative charges				
Fundam- ental Charge	1.6 x 10 ⁻¹⁹				
Conductor	allows electricity to flow through it				
Insulator	electric current does not flow freely				

Electric Charge (cont)			Electric Charge 2		
Coulomb's	's $F = k (q1q2)/r^2$			Electrostatic Interaction	
Law			1. Any charged objects can attract a neutral		
(electric	k = coulomb's constant (8.99 x 10 ⁹) object	
force			2. Unlike charges attract		
increases			3. Like charges repel		
as charge increases)			charges of a	$1 \text{ C} = 6.242 \times 10^{18}$	
(electric force decreases	q1 = charge of object 1		particle depends on the sum of its electrical charges		
as					
distance increases)	q2 = charge of object 2 r = distance of object 1 and 2 from other			lon	atom or group of atoms that bears one
					or more positive or negative charges
					more proton, positive
Vector Analy involved	ysis - used whe	en 3 or more ob	jects a	re Anion	more electron, negative ion
Particle	Proton	Electron	Neut	ron Charging Objects	
Mass	9.1093897 x 10 ⁻³¹ kg	1.6726231 x 10 ⁻²⁷ kg	1.674 x 10 ⁻²	19286	





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Page 1 of 1.

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