Cheatography

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

Electric Charge		Electric Charge (cont)			Electric Charge	2	
Terms		Coulomb's	F = k (q1q2)/	r ²	Electrostatic Inte	eraction	
Induction	process of heating electrically conductive materials	Law (electric	k = coulomb's constant (8.99 x 10 q1 = charge of object 1			 Any charged objects can attract a neutral ⁹) object 	
Conductors	materials that allow electrons to move separately from their atomic orbits	force increases as charge increases) (electric force decreases as			2. Unlike charge	2. Unlike charges attract	
					Ū	3. Like charges repel charges of a $1 \text{ C} = 6.242 \times 10^{18}$	
Coulomb	SI unit of electric chagre				charges of a particle depends		
Dipole	2 equal and opposite charges					on the sum of its	
Electric Charge	electrically charged particles				electrical charge	es	
Electrons	carries the smallest type of negative charge	distance increases)			lon	atom or group of atoms that bears one	
Field Lines		q2 = charge of object 2				or more positive or negative charges	
		r = distance of object 1 and 2 from			2 from each Cation	more proton, positive	
Benjamin Franklin	named the positive and negative charges		other			ion	
Fundam-	1.6 x 10 ⁻¹⁹	Vector Anal involved	ysis - used when 3 or more objects a		ojects are Anion	more electron, negative ion	
ental Charge						J. J	
Conductor	allows electricity to flow	Particle	Proton	Electron	Neutron Charging Objec	ts	
Conductor	through it	Mass	9.1093897 x 10 ⁻³¹ kg	1.6726231 x 10 ⁻²⁷ kg	1.674 9286 x 10 ⁻²⁷ kg		
Insulator	electric current does not flow freely	Charge	+ 1.69217733 x 10 ⁻¹⁹ C	- 1.69217733 x 10 ⁻¹⁹ C	none		
		Location	nucleus	outside	nucleus		

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