Field Theory Equations:

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| Gravity | Electric |
| Force:  FG - Force of gravity (of attraction) (N)  G - 6.67x10-11 Nm2kg-2  r - distance separating centers (m)  m1&2 - the two masses (kg)  Field:  g - gravitational field strength (N/kg)  F - force exerted by field on the mass (N)  m - the mass (kg)    g - g near a point mass toward mass (N/kg)  G - 6.67x10-11 Nm2kg-2  M - the mass (kg)  r - distance from the point mass (m) | Force:  FE - Coulomb Force (of repulsion) (N)  k - 8.99x109 Nm2C-2  r - distance separating centers (m)  q1&2 - the two charges (C)  Field:  E - electric field strength (N/C)  F - force exerted by field on charge (N)  q - the charge (C)  (not in data packet)  E - E near a point charge away from charge (N/C)  k - 8.99x109 Nm2C-2  q - the charge (C)  r - distance from the point charge (m) |
| Energy:  Ep - gravitational potential energy (J)  Vg - gravitational potential (J/kg)  m - the mass (kg)    W - work required to move a mass (J)  ΔVg - change in gravitational potential (J/kg)  ΔV = (Vfinal - Vinitial)  m - the mass (kg) | Energy:  Ep - electrical potential energy (J)  Ve - electrical potential (J/C or Volts)  q - the charge (C)    W - work required to move a charge (J)  ΔVe - change in electrical potential (J/C or Volts)  ΔV = (Vfinal - Vinitial)  q - the charge (C) |
| Potential:  Vg - gravitational potential near a point mass (J/kg)  G - 6.67x10-11 Nm2kg-2  M - the mass (kg)  r - distance from the mass (m)    g - gravitational field strength (N/kg)  ΔVg - change in gravitational potential (J/kg)  Δr - displacement in direction of the field (m) | Potential:  Ve - electrical potential near a point charge (J/C or Volts)  k - 8.99x109 Nm2C-2  q - the charge (C)  r - distance from the charge (m)    E - Electric field strength (N/C or V/m)  ΔVe - change in electrical potential (J/C or Volts)  Δr - displacement in direction of the field (m) |
| Ep - gravitational potential energy of two masses (J)  G - 6.67x10-11 Nm2kg-2  M,m - the two masses (kg)  r - distance separating centers (m) | Ep - electrical potential energy of two charges (J)  k - 8.99x109 Nm2C-2  q1&2 - the two charges (C)  r - distance separating centers (m) |