***SPH 3U FORMULA SHEET***

c = 3.00 x 108 m/s o = 4p x 10-7 Tm/A

G = 6.67 x 10-11 Nm2/kg2 ME = 5.98 x 1024 kg

e = 1.60 x 10-19 C rE = 6.38 x 106 m

me = 9.11 x 10-31 kg MM = 7.35 x 1022 kg

mp = 1.673 x 10-27 kg rM = 1.74 x 106 m

mn = 1.675 x 10-27 kg MS = 1.99 x 1030 kg

k = 9.00 x 109 Nm2/C2 rS = 6.96 x 108 m

1 eV = 1.6 x 10-19 J h = 6.63 x 10-34 J s

g = 9.8 N/kg (at Earth’s surface)

