

Object	Mean Equatorial Radius = r m	Gravity on surface = g m/s²	Distance from Center m	Gravity Force on each other m/s²	Ratio = Moon g/Planet g	Remarks
Moon	1737400	1.62	3.84E+08	3.30939E-05	81.39940621	If Moon Escapes, its own gravity will increase 1.62+0.0027=1.6227
Earth	6371000	9.80665	3.84E+08	0.002693823		
Io	1822000	1.8	4.22E+08	3.36018E-05	20276.74805	If Io Escapes, its own gravity will increase 1.8+0.68=2.48
Jupiter	69911000	24.79	4.22E+08	0.681334457		