Planetary Fact Sheet – Metric

	MERCURY	VENUS	EARTH	MOON	MARS	JUPITER	SATURN	URANUS	NEPTUNE	PLUTO
Mass (10^{24} kg)	0.33	4.87	5.97	0.073	0.642	1898	568	86.8	102	0.0130
Diameter (km)	4879	12.104	12.756	3475	6792	142.984	120.536	51.118	49.528	2376
Density (kg/m^3)	5429	5243	5514	3340	3934	1326	687	1270	1638	1850
Gravity (m/s^2)	3.7	8.9	9.8	1.6	3.7	23.1	9.0	8.7	11.0	0.7
Escape Velocity (km/s)	4.3	10.4	11.2	2.4	5.0	59.5	35.5	21.3	23.5	1.3
Rotation Period (hours)	1407.6	-5832.5	23.9	655.7	24.6	9.9	10.7	-17.2	16.1	-153.3
Length of Day (hours)	4222.6	2802.0	24.0	708.7	24.7	9.9	10.7	17.2	16.1	153.3
Distance from Sun (10^6 km)	57.9	108.2	149.6	0.384*	228.0	778.5	1432.0	2867.0	4515.0	5906.4
Perihelion (10^6 km)	46.0	107.5	147.1	0.363*	206.7	740.6	1357.6	2732.7	4471.1	4436.8
Aphelion (10^6 km)	69.8	108.9	152.1	0.406*	249.3	816.4	1506.5	3001.4	4558.9	7375.9
Orbital Period (days)	88.0	224.7	365.2	27.3*	687.0	4331	10.747	30.589	59.8	90.56
Orbital Velocity (km/s)	47.4	35.0	29.8	1.0*	24.1	13.1	9.7	6.8	5.4	4.7
Orbital Inclination (degrees)	7.0	3.4	0.0	5.1	1.8	1.3	2.5	0.8	1.8	17.2
Orbital Eccentricity	0.206	0.007	0.017	0.055	0.094	0.049	0.052	0.047	0.01	0.244
Obliquity to Orbit (degrees)	34	177.4	23.4	6.7	25.2	3.1	26.7	97.8	28.3	119.5
Mean Temperature (C)	167	464	15	-20	-65	-110	-140	-195	-200	-225
Surface Pressure (bars)	0	92	1	0	0.01	Unknown*	Unknown*	Unknown*	Unknown*	0.00001
Number of Moons	0	0	1	0	2	95	146	28	16	5
Ring System?	No	No	No	No	No	Yes	Yes	Yes	Yes	No
Global Magnetic Field?	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Unknown

	MERCURY	VENUS	EARTH	MOON	MARS	JUPITER	SATURN	URANUS	NEPTUNE	PLUTO
Horizon JPL										
Mass (10^{24} kg)	0.3302	4.8685	5.97219		0.64171	1898.18722	568.34	86.813	102.409	0.01307
Radius (km, Equatorial)	2440.53	6051.893	6378.137		3396.19	71492	60268	25559	24766	1188.3
GM (km^3/s^2)	22031.86855	324858.592	398600.435436		42828.375214	126686531.9	37931206.234	5793951.256	6835099.97	869.326
g (m/s2)	*3.6989889219978*	*8.8697601448*	*9.798285322749*		*3.7131940089*	*24.786519848*	*10.442947497*	*8.8692545868*	*11.1437955*	*0.6156451671*
g (m/s2)	3.701	8.87	9.82022		3.71	24.79	10.44	8.87	11.15	0.611

Sun Fact Sheet

	Sun	Earth	Ratio (Sun/Earth)	*Heavy Object*
Mass (10^{24} kg)	1,988,400.	5.9722	332,900.	1,988.40
GM (x 10^6 km^3/s^2)	132,712.	0.39860	332,900.	1327.12
Mass (kg)	1.988402831E+30			1.988403E+28
g (m/s2)	*274.19920256363*	*9.8202396025*		*2.7419920256*
Volume (10^{12} km^3)	1,412,000.	1083	1,304,000.	
Volumetric mean radius (km)	695,700.	6371.	109.2	695,700.
Mean density (kg/m^3)	1408.	5514.	255	
Surface gravity (eq.) (m/s^2)	274.0	9.78	28.0	
Escape velocity (km/s)	617.6	11.19	55.2	
Ellipticity	0.00005	0.0034	15	
Moment of inertia (I/MR^2)	70	0.3308	212	
Visual magnitude V(1,0)	-26.74	-3.86	-	

G (N·m2·kg−2) 6.6743015E-11

G (N·m2·kg−2)