

Milky Way	Dimensions		Rotation	Stars
	100–180 K-ly wide	2 K-ly thick	220–360 M-y	100–400 B stars

Sun	Orbital Characteristics			Physical Characteristics					Planets		From Earth	
	From Galaxy Centre	Period	Motion to Plane	Diameter (km)	Mass (kg)	Gravity (g)	Rotation	Tilt	Major	Dwrf	Brightness (magnitude)	Size (arcmin)
	26,500 ly	238 my	up/dn 2.7x	1,391,400	1.99E+30	27.90	25.05 d	67.23	8	5	-26.7	32.15

Major Planets	Orbital Characteristics				Physical Characteristics					Moons		From Earth	
	Radius (M-km)	Light Time	Period	Inclination (° to Sun Eq)	Diameter (km)	Mass (kg)	Gravity (g)	Rotation	Tilt	Total	Major	Brightness (magnitude)	Size (arcsec)
Mercury ♀	58	3.22 lm	88 d	3.4	4,879	3.30E+23	0.38	58.6 d	0.04	0		5.7 to -2.6	4.5 to 13
Venus ♀	108	6.02 lm	225 d	3.9	12,104	4.60E+08	0.90	-243.0 d	177.4	0		-3.8 to -4.6	9.7 to 66
Earth ⊕	150	8.32 lm	365 d	7.2	12,742	5.97E+24	<b>1.00</b>	23.9 h	23.4	1	1		
Mars ♂	228	12.67 lm	687 d	5.7	6,779	6.42E+23	0.38	24.6 h	25.2	2	0	1.6 to -3	3.5 to 25
Jupiter ♃	778	43.27 lm	11.9 y	6.1	139,822	1.90E+27	2.53	9.9 h	3.1	69	4	-1.6 to -2.9	30 to 50
Saturn ♄	1,429	1.32 lh	29.5 y	5.5	116,464	5.68E+26	1.07	10.6 h	26.7	62	7	1.5 to -0.2	15 to 20
Uranus ♅	2,875	2.66 lh	84.0 y	6.5	50,724	8.68E+25	0.89	17.2 h	97.8	27	5	5.9 to 4.1	3.3 to 4.1
Neptune ♆	4,504	4.17 lh	165 y	6.4	49,244	1.02E+16	1.14	16.1 h	28.3	14	1	8 to 7.8	2.2 to 2.4

Dwarf Planets	Orbital Characteristics				Physical Characteristics					Moons		From Earth	
	Radius (M-km)	Light Time	Period	Inclination (° to Ecliptic)	Diameter (km)	Mass (kg)	Gravity (g)	Rotation	Tilt	Total	Major	Brightness (magnitude)	Size (arcsec)
Cerus	414	23.02 lm	4.6 y	10.6	946	9.39E+20	0.29	9.1 h	4.0	0		6.6 to 9.3	0.9 to 0.3
Pluto	5,906	5.47 lh	248 y	17.2	2,380	1.30E+22	0.06	6.4 d	122.5	5	1	13.7 to 16.3	0.1
Haumea	6,465	5.99 lh	284 y	28.2	1,258	4.01E+21	0.06	3.9 h		0		17.3	
MakeMake	6,839	6.34 lh	309 y	29.0	1,430	4.40E+21	0.05	7.8 h		0		17.0	
Eris	10,166	9.42 lh	558 y	44.0	2,326	1.66E+22	0.08	25.9 h		0		18.7	