

Planetary Data Table

	Perihelion Distance (AUs)	Aphelion Distance (AUs)	Semi-Major Axis (AUs)	Semi-Major Axis (AUs)	Orbital Eccentricity	Orbital Period	Inclination (degrees)
Mercury	.307	.467	0.387	0.4	0.207	87.97 days	7
Venus	.718	.728	0.723	0.7	0.007	224.7 days	3
Earth	.983	1.017	1.000	1	0.017	365.26 days	0
Mars	1.382	1.666	1.524	1.5	0.093	687 days	2
Jupiter	4.950	5.458	5.204	5	0.05	11.9 years	1
Saturn	9.040	10.124	9.582	10	0.056	29.5 years	2
Uranus	18.324	20.078	19.201	20	0.05	84 years	1
Neptune	29.709	30.385	30.047	30	0.01	164.8 years	2
Pluto	29.646	48.826	39.236	40	0.25	247.7 years	17
	Mass (Earth = 1)	Diameter (Earth = 1)	Volume (Earth = 1)	Density (Earth = 1)	Density (Water = 1)	Gravity (Earth = 1)	Escape Velocity (Earth = 1)
Mercury	.0553	.383	.0562	.984	5.43	.38	.38
Venus	.815	.949	.857	.95	5.24	.9	.93
Earth	1	1	1	1	5.52	1	1
Mars	.107	.533	.151	.71	3.9	.38	.45
Jupiter	317.8	11.2	1321	.24	1.3	2.5	5.3
Saturn	95.2	9.45	764	.13	.7	1.1	3.2
Uranus	14.5	4.01	63.1	.23	1.2	.9	1.9
Neptune	17.1	3.88	57.7	.3	1.6	1.1	2.1
Pluto	.0021	.187	.0066	.32	1.8	.06	.1
	Rotational Period	Day	Rotational Tilt (degrees)	Rotational Notes	Surface Temperatures (Fahrenheit degrees)		
Mercury	58.647 days	175.94 days	0	locked to Sun	+600 to +800 daytime, -300 nighttime		
Venus	-243 days	-117 days	177 (-3)	retrograde	+850 to +890		
Earth	23 h 56 m	24 h 0 m	23.5	+0.001s/d/100 y	+40 to +90 day, a little less at night		
Mars	24 h 37 m	24 h 39 m	24		+80 to -210, -70 average		
Jupiter	9 hr 50 min	9 hr 50 min	3	(at Equator)	-250 cloudtops, warmer below		
Saturn	10 hr 15 min	10 hr 15 min	27	(at Equator)	-300 at 1 bar depth, warmer below		
Uranus	-17 hours	-17 hours	98 (-82)	retrograde	-350 clouds		
Neptune	16 hours	16 hours	29		-370 clouds		
Pluto	-6.39 days	-6.39 days	118 (-62)	locked to moon	-370 perihelion, -410 aphelion		
	Atmosphere (Earth = 1)	Composition of Atmosphere		Magnetic Field (Earth = 1)	Internal Structure and Composition		
Mercury	"none"	solar wind, impacts, outgassing		.01	rocky mantle, large metal core		
Venus	100	96% CO2, 4% nitrogen		none	rocky mantle, average metal core		
Earth	1	80% nitrogen, 20% oxygen		1	rocky mantle, average metal core		
Mars	.01	95% CO2, 3% nitrogen		.001	rocky mantle, small metal core		
Jupiter	Very Large	90% hydrogen, 10% helium		14	liquid hydrogen and helium		
Saturn	Very Large	90% hydrogen, 10% helium		.7	liquid hydrogen and helium		
Uranus	Very Large	90% hydrogen, 10% helium		.7	liquid hydrogen and helium, water		
Neptune	Very Large	90% hydrogen, 10% helium		.4	water, liquid hydrogen and helium		
Pluto	"none"	temporary nitrogen, methane		none?	dirty ice, rock		