

## Solar system planets at a glance

These are pondered 2012 data, including Pluto (no longer a planet). Maximal and minimal values among planets are marked in bold color.

Property	Units	Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune	Pluto
<b>Mass</b>	10 <sup>24</sup> kg	<b>0.33022</b>	4.8685	<b>5.9736</b>	0.64185	<b>1898.6</b>	568.46	86.810	102.43	0.013
<b>Relative mass</b>	Earth=1	<b>0.055</b>	0.815	<b>1</b>	0.107	<b>317.8</b>	95.2	14.5	17.1	0.0022
<b>Surface</b>	10 <sup>6</sup> km <sup>2</sup>	<b>74.8</b>	460	<b>510.072</b>	144.798	<b>61419</b>	42700	8115	7618	16.65
<b>Relative surface</b>	Earth=1	<b>0.147</b>	0.88	<b>1</b>	0.284	<b>121.9</b>	83.7	15.9	15.0	0.033
<b>Volume</b>	10 <sup>12</sup> km <sup>3</sup>	<b>0.06083</b>	0.938	<b>1.08321</b>	0.16318	<b>1431.30</b>	827.13	68.33	62.54	0.00639
<b>Relative volume</b>	Earth=1	<b>0.056</b>	0.88	<b>1</b>	0.15	<b>1321</b>	763.6	63.1	57.7	0.0059
<b>Density, mean</b>	kg/liter	5.427	5.204	<b>5.515</b>	3.933	1.326	<b>0.687</b>	1.27	1.638	2.03
<b>Radius, mean</b>	Km	<b>2440</b>	6051.8	<b>6378.137</b>	3389.508	<b>69911</b>	57816	25266	24550	1160
<b>Flattening ratio</b>	x 1000	<b>0</b>	<b>0</b>	<b>3.3528</b>	5.89	64.87	<b>97.96</b>	22.9	17.1	?
<b>Gravity at surface</b>	Earth=1	0.38	0.904	<b>1</b>	<b>0.376</b>	2.53	1.07	0.886	<b>1.14</b>	0.067
<b>Escape velocity</b>	km/s	<b>4.25</b>	10.46	<b>11.186</b>	5.03	<b>59.5</b>	35.5	21.3	23.5	1.229
<b>Rotation period</b>	<u>days</u> , <u>hours</u>	59d	<b>-243d 26'</b>	<b>23h 56' 4"</b>	24h 37' 23"	<b>9h 55' 30"</b>	10h 34'	-17h 14'	16h 7'	6d 9h 17'
<b>Equatorial velocity</b>	m/s	3.026	<b>1.81</b>	<b>465.1</b>	241.2	<b>12600</b>	9870	2590	2680	13
<b>Inclination of rotation axis</b>	arcdeg	<b>2' 7"</b>	177.3°	<b>23° 26' 21"</b>	23° 59'	3° 8'	26° 44'	<b>97° 46'</b>	28° 32'	119° 36'
<b>Sun constant</b>	W/m <sup>2</sup>	<b>9131</b>	2566	<b>1367.6</b>	588.2	50.52	15.03	3.718	<b>1.513</b>	0.8792
<b>Surface temperature</b>	°C	-183/+427	<b>462</b>	<b>22</b>	-23	-110	-140	-190	<b>-200</b>	-230
<b>Atmospheric pressure</b>	Mbar	<b>traces</b>	<b>93000</b>	<b>1000</b>	6	>2000 (?)	>1000 (?)	> 1000 (?)	> 1000 (?)	< 0.0003
<b>Atmosphere composition</b>	-	O <sub>2</sub> ,Na,H <sub>2</sub>	CO <sub>2</sub> ,N <sub>2</sub>	<b>N<sub>2</sub>,O<sub>2</sub></b>	CO <sub>2</sub> ,Ar	H <sub>2</sub> ,He	H <sub>2</sub> ,He	H <sub>2</sub> ,He,M	H <sub>2</sub> ,He,M	N <sub>2</sub> ,M,CO
<b>Systemic magnetic field</b>	μT	Very weak	<b>none</b>	<b>50</b>	lumps	<b>430</b>	21	< 10 (?)	0 (?)	0
<b>Distance from Sun: mean</b>	au	<b>0.387</b>	0.723	<b>1</b>	1.524	5.203	9.582	19.23	<b>30.10</b>	39.26
<b>mean</b>	10 <sup>6</sup> km	57.9	108.2	<b>149.6</b>	227.9	778.5	1433	2876	4503	5874
<b>minimum</b>	10 <sup>6</sup> km	45.9	107.5	<b>147.1</b>	206.7	740.6	1353	2749	4453	4437
<b>Maximum</b>	10 <sup>6</sup> km	69.7	108.9	<b>152.1</b>	249.2	816.5	1513	3004	4554	7311
<b>Diameter seen from Sun</b>	arcdeg	<b>1° 22' 40"</b>	44' 15"	<b>31' 59"</b>	11' 9"	6' 09"	3' 22"	1' 41"	<b>1' 04"</b>	49"
<b>Orbital period</b>	<u>days</u> / <u>years</u>	<b>87.969 d</b>	224.701d	<b>365.256 d</b>	686.971d	11.86 y	29.46 y	84.32 y	<b>164.79 y</b>	248.1 y
<b>Orbit excentricity</b>	x 100	<b>20.5630</b>	<b>0.68</b>	<b>1.671123</b>	9.3315	4.8775	5.5723	4.4405	1.1214	24.88
<b>Orbit inclination to ecliptic</b>	arcdeg	<b>7.005</b>	3.395	<b>0</b> (defined)	1.850	1.305	2.485	<b>0.773</b>	1.768	17.14
<b>Mean orbital velocity</b>	km/s	<b>47.87</b>	35.02	<b>29.78</b>	24.08	13.07	9.69	6.81	<b>5.43</b>	4.67
<b>Principle satellites</b>	-	0	0	<b>1</b>	2	60 (4 big)	<b>62 (14 big)</b>	27 (5 big)	13 (1 big)	4

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