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OpenLearn Study Unit: MOONS
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DATA TABLE

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Moons

Data table

Planet or primary	Name of moon	Diameter / km	Mass / kg	Orbital radius or semi-major axis / km	Orbital period / days	Orbital inclination / degrees
Earth	The Moon	3474.2	7.348×10^{22}	384 399	27.322	5.145
Mars	Phobos	22.2	1.072×10^{16}	9377.2	0.319	26.04
	Deimos	12.4	1.480×10^{15}	23 460	1.262	27.58
Jupiter	Io	3660	8.932×10^{22}	421 700	1.769	0.050
	Europa	3121	4.800×10^{22}	671 034	3.551	0.471
	Ganymede	5262	1.482×10^{23}	1 070 412	7.155	0.204
	Callisto	4820	1.076×10^{23}	1 882 709	16.689	0.205
Saturn	Mimas	396.4	3.749×10^{19}	185 404	0.942	1.566
	Enceladus	504.2	1.080×10^{20}	237 950	1.370	0.010
	Tethys	1062	6.170×10^{20}	294 619	1.888	0.168
	Dione	1123	1.123×10^{21}	377 396	2.737	0.002
	Rhea	1527	2.307×10^{21}	527 108	4.518	0.327
	Titan	5151	1.345×10^{23}	1 221 930	15.945	0.3485
	Hyperion	270	5.6×10^{18}	1 481 100	21.277	0.043
	Iapetus	1470	1.806×10^{21}	3 560 820	79.322	7.570
Uranus	Miranda	471.6	6.590×10^{19}	129 390	1.413	4.232
	Ariel	1158	1.353×10^{21}	191 020	2.520	0.260
	Umbriel	1169	1.172×10^{21}	266 300	4.144	0.205
	Titania	1577	3.527×10^{21}	435 910	8.706	0.340
	Oberon	1523	3.014×10^{21}	583 520	13.463	0.058
Neptune	Despina	150	2.100×10^{18}	52 526	0.335	0.068
	Galatea	176	3.750×10^{18}	61 953	0.429	0.034
	Larissa	194	4.950×10^{18}	73 548	0.555	0.205
	Proteus	420	5.035×10^{19}	117 646	1.122	0.075
	Triton	2705	2.141×10^{22}	354 759	5.877	156.865
	Nereid	340	2.700×10^{19}	5513.818	360.130	7.09
Pluto	Charon	1207	1.52×10^{21}	17 536	6.39	0.001
	Styx	10 to 25	unknown	42 000	20.2	unknown
	Nix	46 to 137	$< 2 \times 10^{18}$	48 708	24.9	0.195
	Kerberos	13 to 34	unknown	59 000	32.1	unknown
	Hydra	61 to 167	$< 2 \times 10^{18}$	64 749	38.2	0.212

Footnote: There are also inner moonlets and irregular outer moons that are not mentioned above. Jupiter has at least four inner moonlets and 59 irregular outer moons. Saturn has at least 18 inner moonlets and at least 38 irregular outer moons. Uranus has at least 13 inner moonlets and at least nine irregular outer moons. Neptune has at least three inner moonlets and at least five irregular outer moons.