

Football Field Solar System Scale Model

15 in 18 in

Body	Diameter (km)	Scaled d (in)	Orbit r (km)	Scaled orbit radius	paces	paces
Sun	1391900	1				
Mercury	4866	.0035 in	57950000	3 ft 5.63 in	3	2
Venus	12106	.0087 in	108110000	6 ft 5.67 in	5	4
Earth	12742	.0092 in	149570000	8 ft 11.46 in	7	6
Moon	3476	.0025 in	384403	0 ft 0.28 in	0	0
Mars	6760	.0049 in	227840000	13 ft 7.69 in	11	9
Phobos	20	.0000 in	9408	0 ft 0.01 in	0	0
Deimos	10	.0000 in	23457	0 ft 0.02 in	0	0
Jupiter	139516	.1002 in	778140000	46 ft 7.05 in	37	31
Metis (XVI)	40	.0000 in	128000	0 ft 0.09 in	0	0
Adrastea (XIV)	40	.0000 in	129000	0 ft 0.09 in	0	0
Amalthea (V)	260	.0002 in	181400	0 ft 0.13 in	0	0
Thebe (XV)	80	.0001 in	222000	0 ft 0.16 in	0	0
Io (I)	3640	.0026 in	421900	0 ft 0.30 in	0	0
Europa (II)	3000	.0022 in	671200	0 ft 0.48 in	0	0
Ganymede (III)	5280	.0038 in	1071000	0 ft 0.77 in	0	0
Callisto (IV)	5000	.0036 in	1880000	0 ft 1.35 in	0	0
Leda (XIII)	8	.0000 in	11110000	0 ft 7.98 in	1	0
Himalia (VI)	170	.0001 in	11470000	0 ft 8.24 in	1	0
Lysithea (X)	20	.0000 in	11710000	0 ft 8.41 in	1	0
Elara (VII)	60	.0000 in	11740000	0 ft 8.43 in	1	0
Ananke (XII)	16	.0000 in	20700000	1 ft 2.87 in	1	1
Carme (XI)	24	.0000 in	22350000	1 ft 4.06 in	1	1
Pasiphae (VIII)	28	.0000 in	23300000	1 ft 4.74 in	1	1
Sinope (IX)	24	.0000 in	23700000	1 ft 5.03 in	1	1
Saturn	116438	.0837 in	1427000000	85 ft 5.22 in	68	57
Atlas	40	.0000 in	137670	0 ft 0.10 in	0	0
1980 S27	140	.0001 in	139350	0 ft 0.10 in	0	0
1980 S26	110	.0001 in	141700	0 ft 0.10 in	0	0
Epimetheus	140	.0001 in	151420	0 ft 0.11 in	0	0
Janus	220	.0002 in	151470	0 ft 0.11 in	0	0
Mimas	390	.0003 in	185540	0 ft 0.13 in	0	0
Enceladus	500	.0004 in	239040	0 ft 0.17 in	0	0
Tethys	1060	.0008 in	294670	0 ft 0.21 in	0	0
Telesto	34	.0000 in	294870	0 ft 0.21 in	0	0
Calypso	34	.0000 in	294870	0 ft 0.21 in	0	0
1980 S6	36	.0000 in	377420	0 ft 0.27 in	0	0
Dione	1120	.0008 in	377420	0 ft 0.27 in	0	0
Rhea	1530	.0011 in	527070	0 ft 0.38 in	0	0
Titan	5120	.0037 in	1221860	0 ft 0.88 in	0	0
Hyperion	410	.0003 in	1481000	0 ft 1.06 in	0	0
Iapetus	1460	.0010 in	3560800	0 ft 2.56 in	0	0
Phoebe	220	.0002 in	12954000	0 ft 9.31 in	1	1
Uranus	46940	.0337 in	2870300000	171 ft 10.15 in	137	115
Ariel	622	.0004 in	191800	0 ft 0.14 in	0	0
Umbriel	402	.0003 in	267200	0 ft 0.19 in	0	0
Titania	1000	.0007 in	438600	0 ft 0.32 in	0	0
Oberon	802	.0006 in	586100	0 ft 0.42 in	0	0
Miranda	242	.0002 in	129400	0 ft 0.09 in	0	0
Neptune	45432	.0326 in	4499900000	269 ft 4.92 in	216	180
Triton	4016	.0029 in	353100	0 ft 0.25 in	0	0
Nereid	272	.0002 in	5900000	0 ft 4.24 in	0	0
Pluto	3400	.0024 in	5913000000	354 ft 0.15 in	283	236
Charon	1500	.0011 in	17500	0 ft 0.01 in	0	0

Speed of light (km/s) 299792 0.22in/sec
 Light year (km) 9.46051E+12 1.00mi

To Alpha Centauri (km) 4.03964E+13 458.06mi
 To Sirius 8.17388E+13 926.84mi

To Deneb	1.32636E+16	150,397mi
To Galactic center (km)	2.62151E+17	3.0E+06mi
To Andromeda Galaxy (km)	2.17592E+19	2.5E+08mi

Hottest star (Type O5)	25054200	2 ft
Coollest star (Type M5)	445408	0.32 in
Red giant (Betelgeuse)	1043925000	63 ft
White dwarf (Sirius B)	27838	.0200 in
Neutron star	20	.0000 in