

Appendix 7 The scaled distances

Planet	Distance from the Sun (million km)	Diameter (km)	Scaled distance from the sun (m)	Scaled diameter (mm)	Object
Sun (A star)	0	1390000	0	240	Basket ball
Walk 10 m					
Mercury	57.9	4,878	10	0.8	Pinhead
Walk 9 m					
Venus	108.2	12,104	19	2	Peppercorn
Walk 7m					
Earth	149.6	12,756	26	2.1	Peppercorn
Walk 13m					
Mars	227.9	6,787	39	1.1	Pinhead
Walk 95 m					
Jupiter	778.3	142,796	134	24	large bottle cap
Walk 112 m					
Saturn	1,427.0	120,660	246	20	small bottle cap
Walk 247 m					
Uranus	2,871.0	51,118	493	8	Nail head
Walk 281m					
Neptune	4,497.1	48,600	774	7.8	Nail head

Additional note for the table. The moon is 384000 km from the Earth. On this scale the moon is 6.6 cm from the Earth and has a diameter of 0.6 mm.

Also, on this scale we are walking at a speed of 8.1 million km/s or 27 times faster than the speed of light.