

# BUILD A MODEL SOLAR SYSTEM

## DARK SIDE OF THE MOON

A HomeScouting  
Adventure

In your backyard build a scale model of the solar system using basketballs, baseballs, soccer balls, etc. Challenge your family members to see who can race from planet to planet in the fastest time.

This chart shows each planet's approximate distance from the sun, along with scale distances. It also shows Proxima Centauri, the nearest star to the sun.

Object	Approximate Distance to Sun (miles)	Scale Distance (in inches) 1 million miles = 1 in	Scale Distance (in feet)	Scale Distance (in centimeters) 1 million miles = 1 cm	Scale Distance (in meters)
Sun	-	-	-	-	-
Mercury	36,000,000	36	3.0	36	0.36
Venus	67,000,000	67	5.6	67	0.67
Earth	93,000,000	93	7.8	93	0.93
Mars	141,500,000	141.5	11.8	141.5	1.42
Jupiter	483,300,000	483.3	40.3	483.3	4.83
Saturn	886,200,000	886.2	73.9	886.2	8.86
Uranus	1,789,900,000	1789.9	149.2	1789.9	17.90
Neptune	2,792,600,000	2792.6	232.7	2792.6	27.93
Proxima Centauri	25,200,000,000,000	25200000	2,100,000.0	25,200,000	252000.00