

## Solar System Information and Scale Sizes

(The Scale distances and sizes can be used for constructing a scale solar system around the school)

Body	(Weekday named after...)	Diameter (km)	Orbit Radius (Earth's =1)	Mass (Earth =1)	Scale 1 Size (mm)	Scale 1 Orbit Radius (mm)	Scale 2 Size (mm)	Scale 2 Orbit Radius (mm)
Sun	Sunday	1,390,000		333,000	200 *		60 *	
Mercury	Wednesday (German: Woden)	4,880	0.38	0.05	0.7	8.3	0.2	2.4
Venus	Friday (German: Freya)	12,104	0.72	0.82	1.7	15.6	0.5	4.6
Earth		12,756	1.0 ( $1.496 \times 10^{12}$ km)	1 ( $5.97 \times 10^{24}$ kg)	1.8	21.5	0.5	6.3
Moon	Monday	3,476		0.01	0.01	(55mm from Earth)	0.15 (rings: 11.8)	(17mm from Earth)
Mars	Tuesday (German: Tiu)	6,794	1.52	0.1	1.0	32.8	0.3	9.6
Jupiter	Thursday (Norse: Thor)	142,984	5.2318	318	20.6	112	6.1	33
Saturn	Saturday	120,538 (Rings: 880,000)	9.54	95	17.3 (rings: 40)	206	5.1 (rings: 11.8)	60
Uranus		51,118	19.2	14.5	7.4	413	2.2	121
Neptune		49,532	30.1	17.2	7.1	647	2.1	190
Pluto		2,274	39.5	0.002	0.3	850	0.1	250
Alpha Centauri		Dist: $9.5 \times 10^{12}$ km	Dist: 4.2 light years			1360km		400km

(\* Note: Students standing at the appropriate distance from the scale-sized "sun" will see it at the same apparent size as the real sun would be seen from the corresponding planet.)