

Solar System Scales Guide

The following chart lists the weights a child would experience on other planets. Alter bathroom scales (with dials) from the numbers shown in the far-left column, under "Earth," to the corresponding numbers in other columns. First, remove the clear plastic covering to reach the dial with the numbers on it. Then cover each number with Wite-Out and replace it with the appropriate number for that planet. Label each scale with the appropriate planet's name. It is not necessary to provide a scale for every planet, but we recommend offering at least three, including Earth (using an unaltered scale) and Jupiter.

Earth	Moon	Mercury	Venus	Mars	Jupiter	Saturn	Uranus	Neptune
5	1	2	5	2	12	5	4	6
10	2	4	9	4	24	11	9	11
15	3	6	14	6	35	16	13	17
20	3	8	18	8	47	21	18	22
25	4	10	23	10	59	27	22	28
30	5	11	27	11	71	32	27	34
35	6	13	32	13	83	37	31	39
40	7	15	36	15	94	42	36	45
45	8	17	41	17	106	48	40	50
50	9	19	46	19	118	53	45	56
55	9	21	50	21	130	58	49	62
60	10	23	55	23	142	64	53	67
65	11	25	59	25	153	69	58	73
70	12	27	64	27	165	74	62	78
75	13	29	68	29	177	80	67	84
80	14	30	73	30	189	85	71	90
85	14	32	77	32	201	90	76	95
90	15	34	82	34	212	95	80	101
95	16	36	86	36	224	101	85	106
100	17	38	91	38	236	106	89	112
105	18	40	96	40	248	111	93	118
110	19	42	100	42	260	117	98	123
115	20	44	105	44	271	122	102	129
120	20	46	109	46	283	127	107	134
125	21	48	114	48	295	133	111	140
130	22	49	118	49	307	138	116	146
135	23	51	123	51	319	143	120	151

Earth	Moon	Mercury	Venus	Mars	Jupiter	Saturn	Uranus	Neptune
140	24	53	127	53	330	148	125	157
145	25	55	132	55	342	154	129	162
150	26	57	137	57	354	159	134	168
155	26	59	141	59	366	164	138	174
160	27	61	146	61	378	170	142	179
165	28	63	150	63	389	175	147	185
170	29	65	155	65	401	180	151	190
175	30	67	159	67	413	186	156	196
180	31	68	164	68	425	191	160	202
185	31	70	168	70	437	196	165	207
190	32	72	173	72	448	201	169	213
195	33	74	177	74	460	207	174	218
200	34	76	182	76	472	212	178	224
205	35	78	187	78	484	217	182	230
210	36	80	191	80	496	223	187	235
215	37	82	196	82	507	228	191	241
220	37	84	200	84	519	233	196	246
225	38	86	205	86	531	239	200	252
230	39	87	209	87	543	244	205	258
235	40	89	214	89	555	249	209	263
240	41	91	218	91	566	254	214	269
245	42	93	223	93	578	260	218	274
250	43	95	228	95	590	265	223	280
255	43	97	232	97	602	270	227	286
260	44	99	237	99	614	276	231	291
265	45	101	241	101	625	281	236	297
270	46	103	246	103	637	286	240	302
275	47	105	250	105	649	292	245	308
280	48	106	255	106	661	297	249	314
285	48	108	259	108	673	302	254	319
290	49	110	264	110	684	307	258	325
295	50	112	268	112	696	313	263	330
300	51	114	273	114	708	318	267	336