

Sheet1

Uniform Acceleration Motion - Free Falling Bodies

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Y = Yo + Vo*t + 0.5*a*t^2				Press F10 for Graph
Incremental (t) =	0.1	0.1	0.1	
Init. Height (Yo) =	10	10	10	
Init. Velocity (Vo) =	30	30	30	
Accelaration (a) =	-9.8	-3.92	-26.46	
t (s)	Y(Earth) (m)	Y(Mars) (m)	Y(Jupiter) (m)	
0	10	10	10	
0.1	12.951	12.9804	12.8677	
0.2	15.804	15.9216	15.4708	
0.3	18.559	18.8236	17.8093	
0.4	21.216	21.6864	19.8832	
0.5	23.775	24.51	21.6925	
0.6	26.236	27.2944	23.2372	
0.7	28.599	30.0396	24.5173	
0.8	30.864	32.7456	25.5328	
0.9	33.031	35.4124	26.2837	
1	35.1	38.04	26.77	
1.1	37.071	40.6284	26.9917	
1.2	38.944	43.1776	26.9488	
1.3	40.719	45.6876	26.6413	
1.4	42.396	48.1584	26.0692	
1.5	43.975	50.59	25.2325	
1.6	45.456	52.9824	24.1312	
1.7	46.839	55.3356	22.7653	
1.8	48.124	57.6496	21.1348	
1.9	49.311	59.9244	19.2397	
2	50.4	62.16	17.08	
2.1	51.391	64.3564	14.6557	
2.2	52.284	66.5136	11.9668	
2.3	53.079	68.6316	9.01329999999997	
2.4	53.776	70.7104	5.79519999999997	
2.5	54.375	72.75	2.31249999999997	
2.6	54.876	74.7504	-1.43480000000004	
2.7	55.279	76.7116	-5.44670000000005	
2.8	55.584	78.6336	-9.72320000000005	
2.9	55.791	80.5164	-14.26430000000001	
3	55.9	82.36	-19.07	

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s
m
m/s
m/s^2
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