

# Ball toss model: projectile motion with no air resistance

Modified Euler evolution equations:  $x_{n+1} = x_n + 0.5 * (v_n + v_{n+1}) * dt$

Force equations:  $F_x = 0$

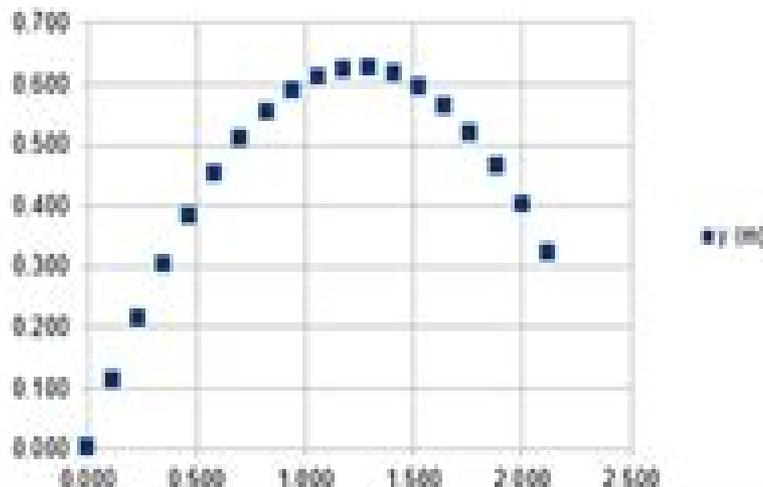
$v_{n+1} = v_n + a_n * dt$

$F_y = -m * g$

To use, change a parameter value or click the orange box below. The (t, x, y) data will be automatically copied to the clipboard.

Parameter	Description	Value	Units		ball								
					t (s)	x (m)	y (m)	vx (m/s)	vy (m/s)	ax (m/s <sup>2</sup> )	ay (m/s <sup>2</sup> )	Fx (N)	Fy (N)
y <sub>0</sub>	initial height	0	m		0.000	0.000	0.000	3.536	3.536	0.000	-10.000	0.000	-10.000
v <sub>0</sub>	initial speed	5	m/s	Change a parameter value or click here to select and copy the gray cells.	0.033	0.118	0.112	3.536	3.203	0.000	-10.000	0.000	-10.000
θ <sub>0</sub>	initial angle	45	°		0.067	0.235	0.213	3.536	2.870	0.000	-10.000	0.000	-10.000
g	gravitation field strength	10	m/s <sup>2</sup>		0.100	0.353	0.303	3.536	2.537	0.000	-10.000	0.000	-10.000
m	mass	1	kg		0.133	0.471	0.382	3.536	2.204	0.000	-10.000	0.000	-10.000
dt	time step	0.0333	s		0.167	0.589	0.450	3.536	1.871	0.000	-10.000	0.000	-10.000
					0.200	0.706	0.507	3.536	1.538	0.000	-10.000	0.000	-10.000
					0.233	0.824	0.552	3.536	1.205	0.000	-10.000	0.000	-10.000
					0.266	0.942	0.587	3.536	0.872	0.000	-10.000	0.000	-10.000
					0.300	1.060	0.610	3.536	0.539	0.000	-10.000	0.000	-10.000
					0.333	1.177	0.623	3.536	0.206	0.000	-10.000	0.000	-10.000
					0.366	1.295	0.624	3.536	-0.127	0.000	-10.000	0.000	-10.000
					0.400	1.413	0.614	3.536	-0.460	0.000	-10.000	0.000	-10.000
					0.433	1.531	0.594	3.536	-0.793	0.000	-10.000	0.000	-10.000
					0.466	1.648	0.562	3.536	-1.126	0.000	-10.000	0.000	-10.000
					0.500	1.766	0.518	3.536	-1.459	0.000	-10.000	0.000	-10.000
				0.533	1.884	0.464	3.536	-1.792	0.000	-10.000	0.000	-10.000	
				0.566	2.001	0.399	3.536	-2.125	0.000	-10.000	0.000	-10.000	
				0.599	2.119	0.323	3.536	-2.458	0.000	-10.000	0.000	-10.000	
				0.633	2.237	0.235	3.536	-2.791	0.000	-10.000	0.000	-10.000	
				0.666	2.355	0.137	3.536	-3.124	0.000	-10.000	0.000	-10.000	
				0.699	2.472	0.027	3.536	-3.457	0.000	-10.000	0.000	-10.000	

X-Y plot



To change the range of copied cells, right-click the "projectile" worksheet tab and choose "View Code" from the popup menu.

# Spreadsheet Physics

**Charles W. Misner, Patrick J. Cooney**



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