

# Ball toss model: projectile motion with no air resistance

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

Force equations:  $F_x = 0$

$v_{x,n+1} = v_{x,n} + a_x * dt$

$F_y = -m * g$

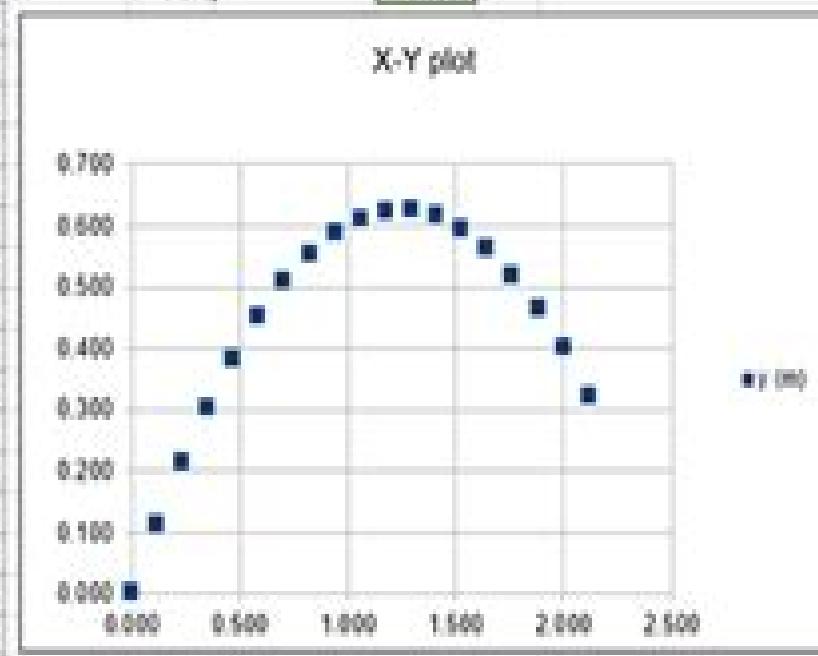
To use, change a parameter value or click the orange box below. The (t, x, y) data will be automatically copied to the clipboard.

Parameter	Description	Value	Units
$y_0$	initial height	0	m
$v_0$	initial speed	5	m/s
$\theta_0$	initial angle	45	°
$g$	gravitation field strength	10	m/s <sup>2</sup>
$m$	mass	1	kg
$\Delta t$	time step	0.0001	s

Change a parameter value  
or click here to select and  
copy the gray cells.

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)	
0.000	0.000	0.000	3.536	3.536	0.000	-10.000	0.000	-10.000	
0.033	0.118	0.112	3.536	3.203	0.000	-10.000	0.000	-10.000	
0.067	0.235	0.213	3.536	2.870	0.000	-10.000	0.000	-10.000	
0.100	0.353	0.303	3.536	2.537	0.000	-10.000	0.000	-10.000	
0.133	0.471	0.382	3.536	2.204	0.000	-10.000	0.000	-10.000	
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	0.639	0.000	-10.000	0.000	-10.000	
0.333	1.177	0.623	3.536	0.406	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	-0.450	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	
0.600	2.119	0.323	3.536	-2.458	0.000	-10.000	0.000	-10.000	
0.633	2.237	0.236	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

**Cathy Smith, Georgina Buttel, Sonya  
Ankerholz-Potts**

## **Spreadsheet Physics:**

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**Preliminary Biology** Diane Alford,2004 Contains a comprehensive summary of the entire course activities glossary of terms and a list of websites      Physics with Excel and Python Dieter Mergel,2023-01-01 This book is intended to serve as a basic introduction to scientific computing by treating problems from various areas of physics mechanics optics acoustics and statistical reasoning in the context of the evaluation of measurements After working through these examples students are able to independently work on physical problems that they encounter during their studies For every exercise the author introduces the physical problem together with a data structure that serves as an interface to programming in Excel and Python When a solution is achieved in one application it can easily be translated into the other one and presumably any other platform for scientific computing This is possible because the basic techniques of vector and matrix calculation and array broadcasting are also achieved with spreadsheet techniques and logical queries and for loops operate on spreadsheets from

simple Visual Basic macros So starting to learn scientific calculation with Excel e g at High School is a targeted road to scientific computing The primary target groups of this book are students with a major or minor subject in physics who have interest in computational techniques and at the same time want to deepen their knowledge of physics Math physics and computer science teachers and Teacher Education students will also find a companion in this book to help them integrate computer techniques into their lessons Even professional physicists who want to venture into Scientific Computing may appreciate this book **Modelling Physics with Microsoft Excel** Bernard V Liengme,2014-10-01 This book demonstrates some of the ways in which Microsoft Excel may be used to solve numerical problems in the field of physics But why use Excel in the first place Certainly Excel is never going to out perform the wonderful symbolic algebra tools that **Wondering About Physics** Dewey I. Dykstra,Robert G. Fuller,1988-06-02 This companion to introductory physics books gives readers practice solving problems on a computer almost any computer running almost any spreadsheet software will do Your spreadsheet program must be able to do trig and inverse trig functions and exponential and logarithmic base e functions graphing capability is a plus Working through these investigations provides excellent professional practice yet no calculus is used Contains 53 investigations including freely falling objects finding the center of mass launching a rocket the Doppler shift Rutherford scattering and relativistic speeds of electrons in a linear accelerator **Excel HSC Economics** J. Buultjens,2005 Contains comprehensive coverage of the new course chapter summaries research activities glossary of terms and useful websites **Spreadsheet Exercises and Solutions, Ohanian's Principles of Physics** Peter Drago,1994-01-01

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**Science Digest** ,1985 **Modelling Physics with Microsoft Excel(R)** Bernard V Liengme,2014-10 This book demonstrates some of the ways in which Microsoft Excel R may be used to solve numerical problems in the field of physics But why use Excel in the first place Certainly Excel is never going to out perform the wonderful symbolic algebra tools that we have today Mathematica Mathcad Maple MATLAB etc However from a pedagogical stance Excel has the advantage of not being a black box approach to problem solving The user must do a lot more work than just call up a function The intermediate steps in a

calculation are displayed on the worksheet Another advantage is the somewhat less steep learning curve This book shows Excel in action in various areas within physics Some Visual Basic for Applications VBA has been introduced the purpose here is to show how the power of Excel can be greatly extended and hopefully to whet the appetite of a few readers to get familiar with the power of VBA Those with programming experience in any other language should be able to follow the code

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