

# 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:  $F_x = 0$

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

$$F_y = -m * g$$

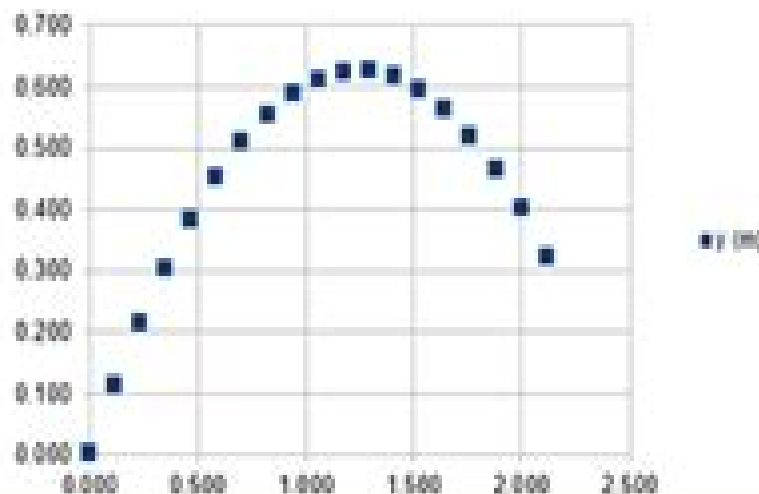
To use, change a parameter value or click the orange box below. The (t, x, y) data will be automatically copied to the clipboard.

				ball								
Parameter	Description	Value	Units	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	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	0.363	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
<div>Change a parameter value or click here to select and copy the gray cells.</div>				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

Legend: ■ y (m)

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:**

**Spreadsheet Physics** Charles W. Misner, Patrick J. Cooney, 1991      **Excel HSC Physics** Neville G. Warren, 2003

**Spreadsheets in Science and Engineering** Gordon Filby, 2013-12-18 Spreadsheets in Science and Engineering shows scientists and engineers at all levels how to analyze, validate and calculate data and how the analytical and graphic capabilities of spreadsheet programs ExcelR can solve these tasks in their daily work. The examples on the CD ROM accompanying the book include material of undergraduate to current research level in disciplines ranging from chemistry and chemical engineering to molecular biology and geology.      *Spreadsheet Physics* Charles Misner, 1998-01      Physics Neville G. Warren, 2004 Contains a comprehensive summary of the entire course activities, glossary of terms and a list of websites.      Spreadsheets for Chemists Gordon Filby, 1995 A practical guide. Spreadsheets for Chemists shows chemists of all levels how to use spreadsheet programs in their daily work. It highlights the possibilities provided by Lotus 1 2 3, the most widely used spreadsheet program in the sciences. Apart from hundreds of example fragments, it features a detailed discussion of the most relevant functions and all the macro commands. An accompanying diskette containing 57 worksheets involving many different fields of chemical research and teaching. An extensive glossary of spreadsheet terms. Three appendices covering 1 2 3's competitors and add-in packages, the use of Windows-based spreadsheets and how what-if analysis and back-solving is applied. Although the disk examples were developed for Lotus 1 2 3 DOS Versions 2 x x 2 4, the worksheets are compatible with the newer Windows versions and those of their main competitors Borland's Quattro Pro and Microsoft's Excel. Several compatible spreadsheets, AsEasyAs Pro, Quake might also be used as inexpensive alternatives. The author is a senior scientist at the Nuclear Research Centre in Karlsruhe, Germany. He has been using spreadsheet software for nearly ten years successfully in a variety of chemical problems.      *Excel for Engineers and Scientists* S. C. Bloch, 2003 In this basic introduction, the author aims to help engineers and scientists to understand and use Excel in their fields. The book is interactive and designed to be used in conjunction with a computer to provide a hands-on learning experience.      **Excel 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

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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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