

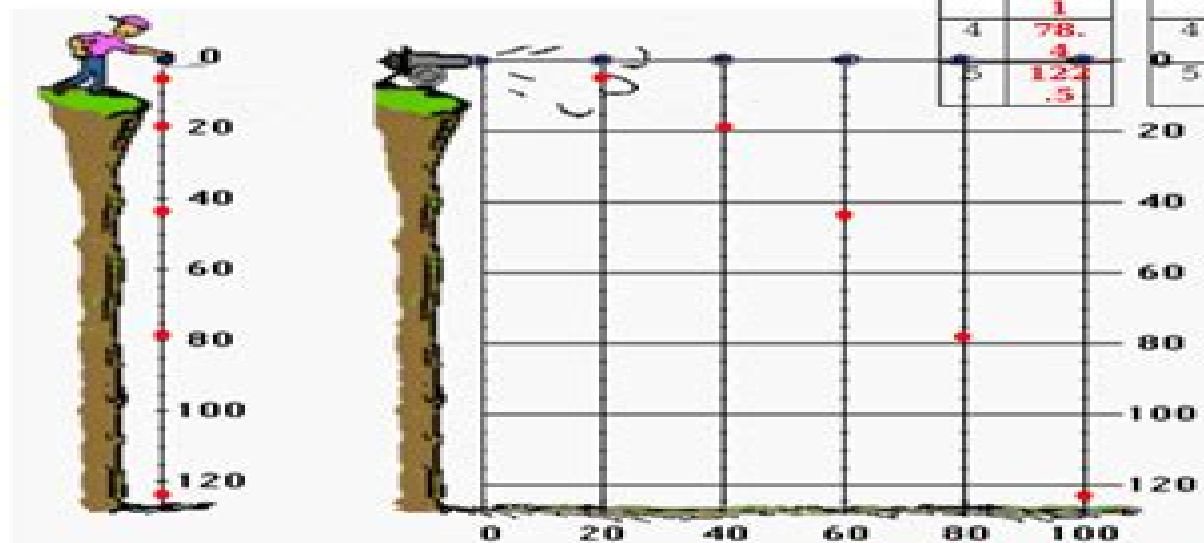
Projectile Motion

Read from Lesson 2 of the Vectors and Motion in Two-Dimensions chapter at The Physics Classroom:

MOP Connection: Vectors and Projectiles: sublevels 7 - 10

1. A baseball is dropped off a cliff and it accelerates to the ground at a rate of -9.8 m/s^2 , down. Meanwhile a cannonball is launched horizontally from a cannon with a horizontal speed of 20 m/s.
2. A scale is shown along the sides of the graphic at the right. Use the scale to locate the position of the baseball and the cannonball. Trace a line to indicate the trajectory of the cannonball.

Baseball		Cannonball		
t (s)	y (m)	t (s)	x (m)	y (m)
0	0.0	0	0.0	0.0
1	4.9	1	20.0	4.9
2	19.6	2	40.0	19.6
3	44.1	3	60.0	44.1
4	78.4	4	80.0	78.4
5	122.5	5	100.0	122.5



3. Which of these two balls strike the ground first? **They hit the ground at the same time.**
4. Compare the two diagrams - the vertical free-fall motion on the left and the two-dimensional free-fall motion on the right. Describe the effect on an object's horizontal motion upon the object's vertical motion.

The horizontal motion has no effect upon the vertical motion; perpendicular components of motion are independent of each other.

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**William J. Leonard, Robert J.
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Mestre**

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