

## PhET Vectors Simulations Lab

### Introduction:

A vector quantity is one that has both a magnitude and a direction. For instance, a velocity vector will have a magnitude (24 m/s) and a direction (northeast or 45 degrees). These simulations will demonstrate how the acceleration vector affects the velocity vector and how vectors can be added to produce a resulting vector.

### Part I: Vector Simulation

#### Procedure:

1. Go to <http://phet.colorado.edu/>
2. Click the "Play with sims... >" button

Play with sims... >

3. From the list on the left, select "Math", then "Applications"
4. From the array of applet pictures, select "Motion in 2D"



Motion in 2D

5. Click the "Run Now!" button

Run Now!

#### Questions:

1. Make sure the Show both and Stop radio buttons are both selected. Drag the object around with your mouse and notice the actions of the two vectors. Spend some time investigating the vectors. Which vector is velocity and which is acceleration and how did you make your decision? *Type your answer in the text box below.*

The velocity vector is green and the acceleration vector is blue. I made my decision because the green vector always points in the direction I am moving the object, but the blue vector changes direction when I change the speed of the object.

When you are finished, submit this document to the Vectors Simulation Assignment on Moodle.

# Phet Vectors Simulations Lab Answer Key

**J Spring**



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