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# Moving Man Lab Analysis Answers

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## **Moving Man Lab Analysis Answers**

This document directs them to PhET where they will be using The Moving Man simulation. My activity sheet is also meant to direct the students in their learning so that they are confident in what material needs to be digested. However, the answers to the questions, data tables,

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and graphs need to all be completed on a separate sheet of paper.

## **Moving Man Simulation Activity Answer Key - BetterLesson**

Created Date:

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**MRS. FOREBACK**  
**2019 - 2020 - Home**  
PHY213 Physics I  
PHY213 Online Lab 01  
Lab 01: The Moving

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Man Can't touch this  
PURPOSE The purpose of this experiment is to explore position, velocity, and acceleration graphs, as demonstrated by a moving man You will use an online simulation (screen shown in Figure 1) from the University of Colorado, Boulder, called PHET Simulation Mining Man. Make sure you have checked the "Labs!" subfolder ...

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## **Solved: PHY213 Physics I PHY213 Online Lab 01 Lab 01: The ...**

Moving Man Lab  
Student Directions  
CSCS Class Discussion  
and Analysis Now,  
either with your the  
built-in camera on your  
computer or your  
mobile device, take a  
picture (or pictures) of  
your work and upload it  
to the shared folder  
here

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## **Moving Man PhET Lab - Mr. Rice's Physics**

cause the man to move back and forth and observe what shows up on the graph. Using the axes provided below make a sketch of the graph that is produced by each action

described next to each axis. Screen 1 Time A man moving from 0m to 10m at a fast pace.

-5 -10 5 0 10 Time (s)



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Distance (m) A man moving from 0m to 10m at a slow steady pace. -5 -10 ...

## **Moving Man - LAB #2**

1. For “Moving Man”, where is the origin ( $x = 0$ ) located with respect to the tree and the house? Velocity and displacement (change in position) are vector quantities and must include a direction. Directions can be

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described in two dimensions by words like “north”, “east”, “south” and “west.”.

## **UNIT 2 CP LAB 2 - The Moving Man**

Physics Lab Name: Tom  
Jessesky and Alec

Szaleski Moving Man

Simulation Period: 2B

Answer the following in  
your lab book. Click

here to run the

simulation or type in

this address: 1.

Investigate Moving

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Man by having the man move using the sliders. Use the playback features to look at the graphs. While you make observations talk about the reasons the graphs look the way they do.

## **Moving Man Phet Lab Activity[1].doc - Physics Lab Name:Tom ...**

Learn about position, velocity, and acceleration graphs.

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Move the little man back and forth with the mouse and plot his motion. Set the position, velocity, or acceleration and let the simulation move the man for you.

## **The Moving Man - Position | Velocity | Acceleration - PhET**

...

You can specify an expression where position is a function of time ( $t$ ). Examples of

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valid expressions:  $f(t)$   
 $= 3 * t + 2$   $f(t) =$   
 $2 * \sin(t)$   $f(t) = \text{pow}(t,2)$   
 $f(t) = 7 * \text{pow}(\sin(t),2)$   
 $f(t) = \text{sqrt}(t * 4)$  Note  
that you only input the  
right side of the  
equation and also that  
multiplication must be  
specified explicitly as  
in  $3 * t$ , instead of  
implicitly as in  $3t$ . ...

## **Moving Man Simulation - OpenStax CNX**

This video explains

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clearly the relation between Position, Velocity and Acceleration through a nice simulator from PHET that shows the data through graphs to...

## **Moving Man Simulator Analysis - YouTube**

PhET Simulation

## **PhET Simulation**

Lab: 12/9/12: Moving  
Man Questions: Patrick

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Foley: HS: Lab:  
9/20/12: Constant  
Acceleration Motion:  
Paolo Bonifacio: HS:  
Lab Demo: 10/30/11:  
Moving Man (Motion  
Intro) Rebecca Barton:  
HS: HW Lab: 8/19/11: 1  
Dimensional Motion -  
Kinematics and  
Graphing: Sarah  
Stanhope: HS: Lab:  
1/27/11: Moving Man  
and Maze Game PhET  
Lab: Chris Bires: HS:  
Lab: 9/23 ...

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**The Moving Man -  
Motion, Velocity,  
Acceleration - PhET**

2. First, without using Moving Man, sketch what you think the graphs would look like for the following scenarios and explain your reasoning. Then, use the Moving man simulation to verify or correct your predicted graphs and reasoning with a different color font or line drawings.



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**Solved: In This Lab  
You Will Investigate  
How To Accurately**

...

Name: \_\_\_\_\_ PhET The  
Moving Man Simulation  
The Moving Man  
Simulation Answer the  
questions in bold-faced  
type as you follow the  
directions for the PHET  
"The Moving Man". If  
the simulation is not  
already open, open the  
PHET folder, click on  
Simulations; in the left  
column, find Motion

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and click on this; then  
find "The Moving Man  
...

## **Name: PhET The Moving Man Simulation**

An object accelerates when its velocity changes, that is speeds up or slows down, or if the direction of the object is moving changes. If the red slider is a measurement of the "moving mans"

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velocity. Because the slider changes its location then the moving man is acceleration. A. True.

## **Moving Man Phet Simulation Part 2 - ProProfs Quiz**

OUTLINE: (A quick reference of the lesson flow from beginning to end) - Approximately 100-150 minutes (1-1.5 blocks). Engage: answer these pre-lab questions via this form

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as a pre-lab/pre-assessment of their skills.; Go over class results and discuss possible trends in answers and what they mean. Correct answers are not revealed and student pre-conceptions are not corrected at this time.

**Moving Man PhET  
Lab - Lesson Plan -  
Mr. Rice's Physics  
9B. Symbolic  
Relationships. 6-8:**

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9B/M3. Graphs can show a variety of possible relationships between two variables. As one variable increases uniformly, the other may do one of the following: increase or decrease steadily, increase or decrease faster and faster, get closer and closer to some limiting value, reach some intermediate maximum or minimum, alternately increase

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and decrease, increase

...

## **PhET Simulation: The Moving Man**

How to use the PhET  
Moving Man to  
complete the Graph  
Matching lab.

## **Lab - Moving Man - YouTube**

PhET Friction Lab The  
Purpose of this lab is to  
determine frictional  
forces on an object  
based on computer

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simulations as well as solve for unknown forces and masses using the equations learned in the class. For this lab simulation you will use the PhET simulation from the following link:

## **PhET Friction Lab**

THE MOVING MAN:  
DISTANCE,  
DISPLACEMENT, SPEED  
& VELOCITY Learning  
Goals - At the end of  
the lab you should be

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able to o Draw and explain what a graph of a person standing still would look like. o Draw and explain what a graphs of a person moving away from an observer at a constant speed looks like. o Draw and explain what a graph of a person moving towards an observer at a constant speed ...



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