

## *Particle Model Ws 4 Answers*

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### Particle Model Ws 4 Answers

9. Would the length of the mirror needed to see your entire body change if you moved farther away from the mirror? Draw a ray diagram to support your answer. ©Modeling Instruction Program 2003 2 L1-Particle Model ws 4 v3.0

### L1 ws 4 - Winston-Salem/Forsyth County Schools

Constant Acceleration Model Worksheet 4. Quantitative Acceleration Problems (8 questions total) SHOW ALL WORK AND INCLUDE UNITS!!! 1. A racecar can go from rest to 36 m/s in 12 seconds. If the racecar started 17 m ahead of the starting line and has an acceleration of 3 m/s/s, what is the position of the car after 12 seconds? 2.

### Uniformly Accelerated Particle Model Worksheet 4:

Name Key Date Pd Constant Velocity Particle Model Worksheet 1: Motion Maps and Position vs. Time Graphs 1. Given the following position vs. time graph, draw a motion map with one dot for each second. Describe the motion of the object in words: The object moves rapidly at constant speed to the right for 2s, stops for a second, then at  $t=3s$ , moves more slowly to the left for 4s.

### Answer Key - Graphs Velocity, HW - Name Key Date Pd ...

©Modeling Instruction - AMTA 2013 1 U3 Uniform acceleration - ws 3 v3.1 Name Date Pd Uniformly Accelerated Particle Model Worksheet 3: Stacks of Kinematic Graphs Given the following position vs time graphs, construct the corresponding velocity vs time and

### Date Pd Uniformly Accelerated Particle Model Worksheet 3 ...

Balanced and unbalanced forces | Forces and Newton's laws of motion | Physics | Khan Academy - Duration: 8:11. Khan Academy 369,647 views

### Free Particle Model Worksheet 1b

Waves Unit I, Worksheet 4 Key . The diagram to the right shows a block attached to a Hookean spring on a frictionless surface. The block experiences no net force when it is at position B. When the block is to the left ... ©Modeling Instruction Program 2003 1 W1 Oscillating Particle WS 4 v3.1 . 7. The position vs. time graph below describes the ...

### Unit 1 Worksheet 4 - Matawan-Aberdeen Regional School ...

©Modeling Instruction Program 2003 2 L1-Particle Model ws 7 v3.0 Qualitatively sketch the path of the light rays below as they enter and exit the glass blocks. It may be helpful to draw the normal at each interface. 3. 4. 5. Quantitatively determine the direction of the refracted ray. air  $n=1.0$  glass  $n=1.5$  36o 6. Find and draw the angle at ...

### Name Date Pd Particle Model of Light Worksheet 7: Refraction

Free Particle Model Worksheet 3: Quantitative Force Analysis & Vector Components 1. Determine the tension in each cable below. Draw a force diagram for the system before solving the problem. Case A - ball suspended on one cable Case B - ball suspended by two cables 2. Determine tension in each cable.

### Free Particle Model Worksheet 3: Quantitative Force ...

Date Pd Free Particle Model Worksheet 4: Force Diagrams & Statics For each of the problems below, carefully draw a force diagram of the system before attempting to solve the problem. 1a. Volcanologists need a lava sample from an active lava pool below a plateau inside the volcano.

### Date Pd Free Particle Model Worksheet 4: Force Diagrams ...

©Modeling Instruction 2010 1 U6 2D Motion - ws 3 v3.0 Name Date Pd Particle Models in Two Dimensions Worksheet 3: Projectile Motion Problems In all the problems below, draw a diagram to represent the situation. Identify the knowns and unknowns and label clearly. 1.

### Particle Models in Two Dimensions Worksheet 3: Projectile ...

4. Make sure that they have a thorough grasp of the relationship between slope and velocity. The answer "1's slope is greater than 2's" is not a guarantee of understanding. It would be profitable to have students model the behavior of the object represented by a variety of graphs. If you have an ultrasonic motion detector, this is great fun! 5.

### 01 U2 Teachernotes - Transforming STEM Education

Date Pd Constant Velocity Model Worksheet 4: Velocity vs. Time Graphs and Displacement 1. This motion map shows the position of an object once every second. From the motion map, answer the following: a. Describe the motion of the object. b. Represent the motion with a quantitative  $x$  vs.  $t$  graph. c. Represent the motion with a

### Date Pd Constant Velocity Model Worksheet 4: Velocity vs ...

Constant Velocity Particle Model Worksheet 1: Motion Maps and Position vs. Time Graphs 1. Given the following position vs. time graph, draw a motion map with one dot for each second. Position vs. Time ... ©Modeling Instruction Program 2009 3 Constant Velocity ws 1 4. Consider the position vs. time graph below for cyclists A and B.

### Constant Velocity Particle Model Worksheet 1: Motion Maps ...

©Modeling Instruction - AMTA 2013 1 U3 Uniform acceleration - ws 4 v3.1 Name Date Pd Uniformly Accelerated Particle Model Worksheet 4: Interpreting Graphs of Accelerated Motion Object A: E F a. Where on the graph above is the object moving most slowly? How do you know? b. Between which points is the object speeding up?

### Name Date Pd Uniformly Accelerated Particle Model ...

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Net Force Particle Model Worksheet 4: Newton's 2nd Law and Component Forces 1. A rollercoaster car, 300 kg with passengers, accelerates down a  $65^\circ$  hill. We will assume that friction is small enough that it can be ignored. a. Draw a force diagram for the system of car and riders. b.

### Name Date Pd Net Force Particle Model Worksheet 4: Newton ...

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### Net Force Particle Worksheets 1 & 2

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### particle motion in two dimensions model worksheet 4 answers

Worksheet 6: Curved mirror problems (Quantitative) Start each problem with a ray diagram to get a qualitative answer. Then use the curved mirror equation or similar triangles within your ray diagram to find quantitative answers. 1. If you place a 4.0 cm high luminous object 45 cm in front of a concave mirror with a focal length of 15 cm, determine

### Worksheet 6: Curved mirror problems (Quantitative) - Copley

©Modeling Instruction 2010 1 U6 2D Motion - ws 4 v3.0 Name Date Pd Particle Motion in Two Dimensions Model Worksheet 4: Projectile Motion Problems 1. A metal sphere is launched with an initial velocity of 1.5 m/s as it leaves the ramp. The end of the ramp is 1.20 m above the floor. Calculate the range of the sphere. ! !

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