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Development Practice
Answers 5
Concept-
Development 5-2
Practice Page. 10 m/s 5
m/s 5 m/s 20 m/s 11.2
m/s 20.6 m/s 30.4 m/s
CONCEPTUAL PHYSICS
22 Chapter 5 Projectile

Motion ... A ball tossed upward has initial velocity components 30 m/s vertical, and 5 m/s horizontal. The position of the ball is shown at 1-second intervals. Air resistance is negligible, and $g = 10 \text{ m/s}^2$...

Concept-Development 5-2
Practice Page 4

Vertical motion is affected only by gravity; horizontal motion does not affect vertical motion.

CONCEPTUAL PHYSICS
Chapter 5 Projectile Motion 19

Concept-Development 5-1
Practice Page 3

Concept-Development 5-1
Practice Page 4

dc a b c

CONCEPTUAL PHYSICS
Chapter 5 Projectile Motion 23

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Concept-Development 5-3
Practice Page 3

Concept-

Development 6-5
Practice Page

Equilibrium on an Inclined Plane 1. The block is at rest on a horizontal surface. The normal support force n is equal and opposite to weight W .

a. There is (friction) (no friction) because the block has no tendency to slide.

2. At rest on the incline, friction acts.

Concept-Development 6-5
Practice Page 3.04

Tutorial & Paul Hewitt's Concept Development 5-2. Purpose: To ... You will now have the opportunity to further explore Newton's Second Law using a tutorial and a concept development practice page developed by Paul Hewitt. Newton's Second Law states that the acceleration of an object is directly proportional to the net force acting on the

...Bug Bumper Buggies
 - 3.04 Tutorial & Paul Hewitt's Concept ...5. Summarizing 2, 3, and 4, where the weight of one object causes the acceleration of two objects, we see the range of possible accelerations is (between zero and g) (between zero and infinity) (between g and infinity). 6. A ball rolls down a uniform-slope ramp. a. Acceleration is (decreasing) (constant) (increasing). b. Concept-Development 6-2 Practice Page Circle the correct answers. 5. We see that tension in a rope is (dependent on) (independent of) the length of the rope. So the length of a vector representing rope tension is (dependent on) (independent of) the length of the rope. Concept-Development

2-2 Practice Page Concept-Development 2-1 Practice Page Concept-Development 4-2 Practice Page Hang Time Some athletes and dancers have great jumping ability. When leaping, they seem to momentarily ... To better understand this, find the answers to the following questions: 1. If you step off a table and it takes one-half second to reach the floor, what will be the ... Concept-Development 2-1 Practice Page 5. The wheels of a bike provide two points of contact with the ground. A kick stand provides a third. Sketch in the triangular area bounded by the three points of ground contact. Where is the CG of the bike with

respect to this area?
 Concept-Development
 11-2 Practice
 PageConcept-
 Development 11-2
 Practice
 Pageconservation gives
 you the answers to
 Cases 2 and 3.] Case 1:
 Speed = m/s Case 2:
 Speed = m/s Case 3:
 Speed = m/s. Ball A
 gets to the bottom fi
 rst due to a greater ...
 Concept-Development
 9-2 Practice Page. 50 N
 During each bounce,
 some of the ball's
 mechanical energy is
 transformed into heat
 (and even sound), so
 the PE decreases with
 each ...Concept-
 Development 9-1
 Practice PageConcept-
 Development Practice
 Page Vectors and
 Equilibrium I. Nellie
 dangles from a vertical
 rope in equilibrium: 0.
 The tension in the rope
 (upward vector) has

the same magnitude as
 the downward pull of
 gravity (downward
 vector). 2. Nellie is
 supported by two
 vertical ropes. Draw
 tension vectors to
 scale along the
 direction of each rope.
 3. www.acschools.orgC
 oncept-Development
 34-1 Practice Page
 Electric Current 1.
 Water doesn't fl ow in
 the pipe when (a) both
 ends are at the same
 level. Another way of
 saying this is that
 water will not fl ow in
 the pipe when both
 ends have the same
 potential energy (PE).
 Similarly, charge will
 not fl ow in a conductor
 if both ends of the
 conductorConcept-
 Development 34-1
 Practice PageConcept-
 Development 13-3
 Practice Page
 Gravitational
 Interactions The

equation for the law of universal gravitation is where F is the attractive force between masses m ...

5. If one of the masses is doubled, the other remains unchanged, and the distance of separation is tripled, show what happens to the force.

Gravitational Interactions - Matawan-Aberdeen Regional ...

Name Class Date

Concept-Development Practice Page 6-1

Friction 1. A crate filled with delicious junk food rests on a horizontal floor. Only gravity and the support force of the floor act on it, as shown by the vectors for weight W and normal force n .

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Physical Science Concept Review Worksheets with Answ.

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Concept-Development 6-4 Practice Page 1. The weight of the block is represented by vector W . We show axes parallel and perpendicular to the surface of the inclined plane.

2. W has a component parallel to the surface (bold vector). Acceleration down the incline is due to this component.

3. Concept-Development 6-4 Practice Page

Concept-Development 9-3 Practice Page $t = 0$ s v

= momentum = $t = 1 \text{ s}$
 $v = \text{momentum} = t = 2$
 $s \ v = \text{momentum} = t =$
 $3 \text{ s} \ v = \text{momentum} = t$
 $= 5 \text{ s} \ v = \text{momentum}$
 = Compact (same
 force but less mass) ...
 Defend your answer. 5.
 Which car has the
 greater momentum at
 the edge of the cliff?
 Defend your answer. 6.
 Which car has the
 greater work done on it
 by ...Concept-
 Development 9-3
 Practice
 PageCONCEPTUAL
 PRACTICE PAGE
 Chapter 2 Newton's
 First Law of Motion-
 Inertia The Equilibrium
 Rule: $\sum F = 0$ 1. Manuel
 weighs 1000 N and
 stands in the middle of
 a board that weighs
 200 N. The ends of the
 board rest on
 bathroom scales. (We
 can assume the weight
 of the board acts at its
 center.) Fill in the

correct weight reading
 on each scale. 850 N
 '<.00 ...Chapter 2
 Newton's First Law of
 Motion-Inertia The
 ...Concept-
 Development 34-2
 Practice Page 4. If part
 of an electric circuit
 dissipates energy at 6
 W when it draws a
 current of 3 A, what
 voltage is impressed
 across it? 5. The
 equation $\text{power} =$
 $\frac{\text{energy converted}}{\text{time}}$
 rearranged gives
 $\text{energy converted} =$
 $\text{power} \times \text{time}$ = 6.
 Explain the difference
 between a kilowatt and
 a kilowatt-hour.
 7. Concept-
 Development 34-2
 Practice Page Circle the
 correct answers. 5. We
 see that tension in a
 rope is (dependent on)
 (independent of) the
 length of the rope. So
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on) (independent of) the length of the rope. Concept-Development 2-2 Practice Page conservation gives you the answers to Cases 2 and 3.] Case 1: Speed = m/s Case 2: Speed = m/s Case 3: Speed = m/s . Ball A gets to the bottom first due to a greater ... Concept-Development 9-2 Practice Page. 50 N During each bounce, some of the ball's mechanical energy is transformed into heat (and even sound), so the PE decreases with each ...

Concept-Development 11-2 Practice Page

Name Class Date

Concept-Development Practice Page 6-1

Friction 1. A crate filled with delicious junk food rests on a horizontal floor. Only gravity and the support force of the floor act on it, as

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Concept-Development 5-3 Practice Page

5. Summarizing 2, 3, and 4, where the weight of one object causes the acceleration of two objects, we see the range of possible accelerations is (between zero and g) (between zero and infinity) (between g and infinity). 6. A ball rolls down a uniform-slope ramp. a. Acceleration is (decreasing) (constant)

(increasing). b.

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Concept Development

Practice Answers 5

Concept-Development

34-1 Practice Page

Concept-Development

Practice Page Vectors

and Equilibrium I.

Nellie dangles from a

vertical rope in

equilibrium: 0. The

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(upward vector) has

the same magnitude as

the downward pull of

gravity (downward

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vertical ropes. Draw

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scale along the

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3.

Chapter 2 Newton's

First Law of Motion-

Inertia The ...

Concept-Development

6-4 Practice Page 1.

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vector W . We show

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Concept-

Development 5-1

Practice Page

5. The wheels of a bike

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provides a third.

Sketch in the triangular

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Concept-Development

11-2 Practice Page

Concept

Development

Practice Page 8 3

Answers -

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Gravitational Interactions - Matawan-Aberdeen Regional ...
 dc a b c CONCEPTUAL PHYSICS Chapter 5
 Projectile Motion 23
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Concept-Development 9-1 Practice Page
 CONCEPTUAL PRACTICE PAGE
 Chapter 2 Newton's First Law of Motion-Inertia The Equilibrium Rule: $\sum F = 0$
 1. Manuel weighs 1000 N and stands in the middle of a board that weighs

200 N. The ends of the board rest on bathroom scales. (We can assume the weight of the board acts at its center.) Fill in the correct weight reading on each scale. 850 N

'<.00 ...

Concept-Development 6-5 Practice Page
 Concept-Development 9-3 Practice Page
 $t = 0$
 s
 $v = \text{momentum} = t = 1$
 s
 $v = \text{momentum} = t = 2$
 s
 $v = \text{momentum} = t = 3$
 s
 $v = \text{momentum} = t = 5$
 s
 $v = \text{momentum} =$
 Compact (same force but less mass) ...
 Defend your answer. 5. Which car has the greater momentum at the edge of the cliff?
 Defend your answer. 6. Which car has the greater work done on it by ...

Concept-Development 5-2 Practice Page
 Concept-Development

6-5 Practice Page
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Bug Bumper Buggies -

3.04 Tutorial & Paul

Hewitt's Concept ...

3.04 Tutorial & Paul

Hewitt's Concept

Development 5-2.

Purpose: To ... You will
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Second Law using a
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development practice

page developed by
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Second Law states that
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proportional to the net

force acting on the ...

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Development

Practice Answers 5

Concept-Development

5-2 Practice Page. 10

m/s 5 m/s 5 m/s 20 m/s

11.2 m/s 20.6 m/s 30.4

m/s CONCEPTUAL

PHYSICS 22 Chapter 5

Projectile Motion ... A

ball tossed upward has
initial velocity

components 30 m/s

vertical, and 5 m/s

horizontal. The posi-

tion of the ball is

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is negligible, and $g =$

10 m/s^2 ...

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6-4 Practice Page

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34-1 Practice Page

Electric Current 1.

Water doesn't flow in
the pipe when (a) both

ends are at the same

level. Another way of

saying this is that

water will not flow in

the pipe when both ends have the same potential energy (PE). Similarly, charge will not flow in a conductor if both ends of the conductor

Concept-Development 34-2 Practice Page

4 Vertical motion is affected only by gravity; horizontal motion does not affect vertical motion.

CONCEPTUAL PHYSICS
Chapter 5 Projectile Motion 19
Concept-Development 5-1
Practice Page

Concept-Development 9-3 Practice Page

Concept-Development 34-2 Practice Page 4. If part of an electric circuit dissipates energy at 6 W when it draws a current of 3 A, what voltage is impressed across it? 5. The equation $\text{power} = \frac{\text{energy converted}}{\text{time}}$ rearranged gives

$\text{energy converted} = 6 \times \text{time}$. Explain the difference between a kilowatt and a kilowatt-hour. 7.

Concept-Development 2-1 Practice Page

Concept-Development 4-2 Practice Page Hang Time Some athletes and dancers have great jumping ability. When leaping, they seem to momentarily ... To better

understand this, find the answers to the following questions: 1. If you step off a table and it takes one-half second to reach the floor, what will be the ...

Concept-Development 2-1 Practice Page

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2-2 Practice Page