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Concept Development
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Concept-Development 8-2
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Practice Page Systems 1.
When the compressed spring is released, Blocks A and B will slide apart. There are 3 systems to consider, indicated by the closed dashed lines below—A, B, and

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A + B. Ignore the vertical forces of gravity and the support force of the table.

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Various ...

Concept-Development 9-3

Practice Page $t = 0$ s $v =$

momentum = $t = 1$ s $v =$

momentum = $t = 2$ s $v =$

momentum = $t = 3$ s $v =$

momentum = $t = 5$ s $v =$

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momentum = Compact (same force but less mass) Sedan (slower) Compact Sedan; same force applied over a longer time produces more impulse.

Ball bumps head Bug hits

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windshield Ball hits bat Nose
touches hand Flower pulls on
hand Thing A acts on Thing B
Thing B reacts on Thing A
Balloon surface pushes
Concept Development
Practice Page 8

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Concept-Development 8-1
Practice Page Momentum 1.
A moving car has momentum.
If it moves twice as fast, its
momentum is as much. 2.
Two cars, one twice as heavy
as the other, move down a hill

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at the same speed. Compared to the lighter car, the momentum of the heavier car is as much.

Concept-Development 8-1 Practice Page

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Concept-Development 8-2
Practice Page Systems 1.
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dashed lines below—A, B, and A + B. Ignore the vertical forces of gravity and the support force of the table.

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Worksheets with Answ ...

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Concept-Development 9-3

Practice Page $t = 0$ $s v =$

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momentum = t = 1 s v =

momentum = t = 2 s v =

momentum = t = 3 s v =

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momentum = Compact (same
force but less mass) Sedan
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same force applied over a longer time produces more impulse.

Concept-Development 9-3

Practice Page

C C A A A C CONCEPTUAL

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PHYSICS Chapter 11
Rotational Equilibrium 59
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Concept-Development 11-1

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concept-development-practice-page-8-3

Practice Page

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

Page 20/96

decreases with each bounce.
6 100 N 100 N 10 cm 6:1 ...
Practice Page and. a.

Concept-Development 9-1
Practice Page
Name Class Date Concept-

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Development Practice Page
9-2 Conservation of Energy
1. Fill in the blanks for the six
systems shown. 30 J 30 J 20
J 30 J 4 × 10⁶ J

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Practice Page -
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8. A big metal bead slides due to gravity along an upright friction-free wire. It starts from rest at the top of the wire as shown in the sketch.

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How fast is it traveling as it passes Point B? Point D? Point E? At what point does it have the maximum speed? 9. Rows of wind-powered generators are used in various windy locations to

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generate ...

Concept-Development 9-1

Practice Page

Concept-Development 11-2

Practice Page. You topple

when your CG extends

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beyond your feet. (One 's buttocks can extend backward so the CG is above the feet.) (The CG is beyond the support base, so the person will topple backward. Demonstrate this in class!)

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CONCEPTUAL PHYSICS

Concept-Development 11-2

Practice Page

3 Simultaneously (speed of
light) 6 1 12 Through Across
b a 4 and 6 5 (not lit) 4 and 6

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(2.25 V each) b (greater
current, same voltage) b
(more power) CONCEPTUAL
PHYSICS

Concept-Development 35-1
Practice Page

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Concept-Development 34-1

Practice Page Electric

Current 1. Water doesn ' t fl

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ow 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

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both ends of the conductor

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Practice Page

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The concept that additionally depends on location in a gravitational field is (mass) (weight). (Mass) (Weight) is a measure of the amount of

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matter in an object and only depends on the number and kind of atoms that compose it.

Concept-Development 2-1 Practice Page

8. If the distance between

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crests in the above question was 1.5 meters, and two crests pass the pole each second, what would be the speed of the wave? What would be its period? 9. When an automobile moves toward

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Practice Page
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

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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

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Practice Page

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

CONCEPTUAL PHYSICS

Chapter 5 Projectile Motion

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Practice Page

Concept-Development 5-1
Practice Page

Ball bumps head Bug hits
windshield Ball hits bat Nose

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Thing B reacts on Thing A
Balloon surface pushes

Concept-Development 7-2 Practice Page

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Concept-Development
Practice Page Non-
Accelerated Motion I. The
sketch shows a ball rolling at
constant velocity along a level
floor. The ball rolls from the
first position shown to the

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second in 1 second. The two positions are 1 meter apart. Sketch the ball at successive 1-second intervals all the way to the wall (neglect resistance). a.

Concept-Development Practice
Page Non-Accelerated Motion I.
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Concept-Development 2-1

Practice Page

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Concept-Development 8-1

Practice Page

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Concept-Development 11-2 Practice Page. You topple when your CG extends beyond your feet. (One 's buttocks can extend backward so the CG is above the feet.) (The CG is beyond the support base, so the person will topple backward.

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Demonstrate this in class!)

CONCEPTUAL PHYSICS

Concept-Development 34-1 Practice

Page Electric Current 1. Water

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Concept-Development 9-2 Practice

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Concept-Development 25-1 Practice Page

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The concept that additionally depends on location in a gravitational field is (mass) (weight). (Mass) (Weight) is a measure of the amount of matter in an object and only depends on the number and kind of atoms that compose it.

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Concept Development Practice Page 8

Concept-Development 8-1 Practice
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Concept-Development 8-1 Practice Page

Concept-Development 8-2 Practice
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Concept-Development 9-3 Practice

Page $t = 0$ s $v = \text{momentum}$ = $t = 1$ s v

= momentum = $t = 2$ s $v = \text{momentum}$

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concept-development-practice-page-8-3

= $t = 3 \text{ s}$ $v =$ momentum = $t = 5 \text{ s}$ $v =$
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less mass) Sedan (slower) Compact
Sedan; same force applied over a
longer time produces more impulse.

Concept-Development 9-3 Practice

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Concept-Development 11-1 Practice Page

Concept-Development 9-2 Practice
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Practice Page and. a.

Concept-Development 9-1 Practice Page

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Development Practice Page 9-2

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Conservation of Energy 1. Fill in the blanks for the six systems shown. 30 J
30 J 20 J 30 J 4×10^6 J

Concept-Development Practice Page
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Concept-Development 11-2 Practice

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Page

3 Simultaneously (speed of light) 6 1
12 Through Across b a 4 and 6 5 (not
lit) 4 and 6 (2.25 V each) b (greater
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CONCEPTUAL PHYSICS

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Concept-Development 34-1 Practice

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**Concept-Development 34-1 Practice
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Concept-Development 25-1 Practice

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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.

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Concept-Development 6-5 Practice Page

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

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PHYSICS Chapter 5 Projectile Motion
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**Concept-Development 5-1 Practice
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Ball bumps head Bug hits windshield
Ball hits bat Nose touches hand Flower
pulls on hand Thing A acts on Thing B
Thing B reacts on Thing A Balloon
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Concept-Development Practice Page
Non-Accelerated Motion I. The sketch shows a ball rolling at constant velocity along a level floor. The ball rolls from the first position shown to the second in 1 second. The two positions are 1

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Development Practice Page
9-2 Conservation of Energy
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Practice Page

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Practice Page

Concept-Development 8-1

Practice Page Momentum

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