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# Physics Concept Development Practice Page 26 1 Answers

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Gravitational Interactions - Matawan-Aberdeen Regional ...

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*Physics  
Concept  
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26 1 Answers*

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## **CAYDEN FARMER**

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[www.lps.org](http://www.lps.org) Physics  
Concept Development  
Practice Page 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. Concept-  
Development 2-1 Practice  
Page CONCEPTUAL  
PHYSICS 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, ... Concept-  
Development 6-1 Practice  
Page.  $10 \text{ m/s}^2$   $6 \text{ m/s}^2$   $0$   
 $\text{m/s}^2$   $-2 \text{ m/s}^2$   $-10 \text{ m/s}^2$   $0$

$\text{m/s}^2$  Note that we take  
acceleration down as +  
here. If chosen as -, then  
- signs become  
+. Concept-Development  
6-1 Practice  
Page CONCEPTUAL  
PHYSICS Chapter 2  
Mechanical Equilibrium 3  
Concept-Development 2-1  
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Development 4-2 Practice  
Page Hang Time Some  
athletes and dancers have

great jumping ability. When leaping, they seem to momentarily “hang in the air” and defy gravity. The time that a jumper is airborne with feet off the ...Concept-Development 2-1 Practice Page CONCEPTUAL PHYSICS 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. Note (right) the ...Concept-Development 6-5 Practice Page CONCEPTUAL PHYSICS Force and Acceleration 1. Skelly the skater, total mass 25 kg, is propelled by rocket power. ... Concept-Development 6-2 Practice Page. ... but B is a low-mass feather (or a coin). a. Compared to the acceleration of the system in 2, previous page, the acceleration of  $(A + B)$  here is (less) (more) and is (close to zero) (close

...Concept-Development 6-2 Practice Page CONCEPTUAL PHYSICS 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 at the same speed. Compared to the lighter car, the momentum of the heavier car is as much. 3. The recoil momentum of a cannon that ...Concept-Development 8-1 Practice

PageCONCEPTUAL  
 PHYSICS Concept-  
 Development 8-2 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 A + B. Ignore the ver-  
 tical forces of gravity and  
 the support force of the  
 table. a. Does an external  
 force act on ...Concept-  
 Development 8-2 Practice  
 Page10 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

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 ...Concept-Development  
 5-2 Practice  
 PageComparing the  
 concepts of mass and  
 weight, one is  
 basic—fundamental—  
 depending only on the  
 internal makeup of an  
 object and the number  
 and kind of atoms that  
 compose it. The concept  
 that is fundamental is  
 (mass) (weight). The  
 concept that additionally  
 depends on location in a  
 gravitational fi eld is  
 (mass) (weight).Concept-

Development 3-1 Practice  
 PageConcept-  
 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  
 bounce. 6 ... Conceptual  
 PhysicsReading and Study  
 Workbook N Chapter 9 67  
 Exercises 9.1 Work (pages  
 145–146) 1. Concept-  
 Development 9-1 Practice  
 Page0 m/s 0 kg m/s 10  
 m/s 1000 kg m/s 2000 kg  
 m/s 20 m/s 30 m/s 3000  
 kg m/s 0 m/s 0 kg m/s 45  
 m 3000 kg m/s 3000 kg

m/s 3000 N s 1,500 N  
 45,000 J 45,000 J  
 Gravitational and elastic  
 potential  
 energiesConcept-  
 Development 9-3 Practice  
 Page3 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  
 current, same voltage) b  
 (more power)  
 CONCEPTUAL  
 PHYSICSConcept-  
 Development 35-1  
 Practice PageConceptual  
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 Book ...The distance  
 between the balls  
 decreases. The  
 wavelength decreases,  
 just as the distance  
 between the balls in  
 Question 5 decreases. 30

m 30 cm 1 m/sConcept-  
 Development 25-1  
 Practice Page4 Vertical  
 motion is affected only by  
 gravity; horizontal motion  
 does not affect vertical  
 motion. CONCEPTUAL  
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 Development 5-1 Practice  
 PageF new =G = 2G = 2  
 old 2 F G d2 d2 m 1 m  
 mm2 m12m dd G F new  
 == =G 1 = 1 F GG  
 G(2ddd)2 4dd2 4 d2 4  
 Fold m12m m12m m12m  
 F = G m 1 m 2 F G dd2  
 mm FG G = G = 4G = 4

new old 2m 1Gravitational Interactions - Matawan-Aberdeen Regional ...2.5 CONCEPTUAL PHYSICS Chapter 26 Sound 119 Name Class Date © Pearson Education, Inc., or its affiliate(s). All rights reserved. Concept-Development 26-1 Practice PageConcept-Development 26-1 Practice PageConcept-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 meter apart. Sketch the ball at successive 1-second intervals all the way to the wall (neglect resistance).

a. www.lps.org 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 ' $<.00$  ...

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.

Conceptual Physics  
Concept-Development  
Practice Book ...

CONCEPTUAL PHYSICS  
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. Note (right) the ...

**Concept-Development  
5-1 Practice Page**

Physics Concept  
Development Practice  
Page

*Concept-Development 2-1  
Practice Page*

0 m/s 0 kg m/s 10 m/s  
1000 kg m/s 2000 kg m/s  
20 m/s 30 m/s 3000 kg

m/s 0 m/s 0 kg m/s 45 m  
3000 kg m/s 3000 kg m/s  
3000 N s 1,500 N 45,000 J  
45,000 J Gravitational and  
elastic potential energies  
Concept-Development  
25-1 Practice Page  
CONCEPTUAL PHYSICS  
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,  
... Concept-Development  
6-1 Practice Page. 10 m/s<sup>2</sup>  
6 m/s<sup>2</sup> 0 m/s<sup>2</sup> -2 m/s<sup>2</sup>  
-10 m/s<sup>2</sup> 0 m/s<sup>2</sup> Note that  
we take acceleration down as  
+ here. If chosen as -, then

- signs become +.

**Concept-Development  
8-2 Practice Page**

The distance between the  
balls decreases. The  
wavelength decreases,  
just as the distance  
between the balls in  
Question 5 decreases. 30  
m 30 cm 1 m/s

**Gravitational  
Interactions -  
Matawan-Aberdeen  
Regional ...**

CONCEPTUAL PHYSICS  
Force and Acceleration 1.  
Skelly the skater, total  
mass 25 kg, is propelled  
by rocket power. ...  
Concept-Development 6-2

Practice Page. ... but B is a low-mass feather (or a coin). a. Compared to the acceleration of the system in 2, previous page, the acceleration of (A + B) here is (less) (more) and is (close to zero) (close ...

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

Comparing the concepts of mass and weight, one is basic—fundamental—depending only on the internal makeup of an object and the number and kind of atoms that compose it. The concept that is fundamental is (mass) (weight). The

concept that additionally depends on location in a gravitational field is (mass) (weight).

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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 19 Concept-Development 5-1 Practice Page *Concept-Development 2-1 Practice Page* 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 I



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 26-1 Practice Page**

CONCEPTUAL PHYSICS

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 at the same speed. Compared to the lighter car, the

momentum of the heavier car is as much. 3. The recoil momentum of a cannon that ...

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 © Pearson Education, Inc., or its affiliate(s). All rights ...

Concept-Development 6-2 Practice Page

$F_{\text{new}} = G = 2G = 2 \text{ old } 2$   
 $F G d^2 d^2 m^1 m^2$   
 $m^2 G F_{\text{new}} = = G$   
 $1 = 1 F G G (2d^2)^2$

$4d^2 4 d^2 4 \text{ Fold } m^2 m^2 m^2 F = G m^1$   
 $m^2 F G d^2 m^2 FG G =$   
 $G = 4G = 4 \text{ new old } 2m^1$   
CONCEPTUAL PHYSICS  
Concept-Development 8-2  
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 A + B. Ignore the vertical forces of gravity and the support force of the table. a. Does an external force act on ...  
Concept-Development 6-1 Practice 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 current, same voltage) b (more power)

CONCEPTUAL PHYSICS  
*Concept-Development 9-1 Practice Page*

2.5 CONCEPTUAL PHYSICS  
 Chapter 26 Sound 119  
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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 bounce. 6 ... Conceptual Physics Reading and Study Workbook N Chapter 9 67 Exercises 9.1 Work (pages 145-146) 1.

**Physics Concept Development Practice Page**  
 CONCEPTUAL PRACTICE PAGE Chapter 2 Newton's First Law of Motion-Inertia The Equilibrium Rule: IF = 0 1. Manuel weighs

1000 N and stands In the middle of a board that weighs 200 N. The ends 01the 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 ...

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CONCEPTUAL PHYSICS  
 Chapter 2 Mechanical Equilibrium 3 Concept-Development 2-1 Practice Page Name Class Date ...  
 Concept-Development 4-2 Practice Page Hang Time  
 Some athletes and

dancers have great jumping ability. When leaping, they seem to

momentarily “hang in the air” and defy gravity. The

time that a jumper is airborne with feet off the ...

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