

# Concept Development Practice Page 23 1 Answers

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### [Concept Development Practice Page 23](#)

#### **Concept-Development 23-1 Practice Page**

Study Section 238 in your textbook and then answer the following: 1 How many calories are needed to change 1 gram of 0°C ice to water? 2 How many calories are needed to change the temperature of 1 gram of water by 1°C? 3 How many calories are needed to melt 1 gram of 0°C ice and turn it to water at a room temperature of 23°C? 4

[faculty.xavierhs.org](http://faculty.xavierhs.org)

Concept-Development 23-1 Practice Page All matter can exist in the solid, liquid, or gaseous phases The solid phase exists at relatively low temperatures, the liquid phase at higher temperatures, and the gaseous phase at still higher temperatures Water is the most common example, not only because of its abundance but also

#### **Concept-Development 23-2 Practice Page**

Concept-Development 23-2 Practice Page Evaporation 1 Why does it feel colder when you swim at a pool on a windy day? 2 Why does your skin feel cold when a little rubbing alcohol is applied to it? 3 Briefly explain from a molecular point of view why evaporation is a cool-

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#### **Concept-Development 34-1 Practice Page**

Concept-Development 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 9-2 Practice Page**

CONCEPTUAL PHYSICS Chapter 9 Energy 49 Name Class Date © Pearson Education, Inc, or its affiliate(s) All rights reserved Conservation of Energy

### **Concept-Development 34-2 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 power = energy converted time rearranged gives energy converted = 6 Explain the difference between a kilowatt and a ...

### **Concept-Development 9-1 Practice Page**

Concept-Development 9-2 Practice Page 50 N During each bounce, some of the ball's mechanical 23 Kinetic energy equals the on an object multiplied by the distance the object moves 24 Is the following sentence true or false? If the speed of an object doubles, the Practice Page and a

### **Concept-Development 26-1 Practice Page**

Concept-Development 26-1 Practice Page Sound 1 Two major classes of waves are longitudinal and transverse Sound waves are (longitudinal) (transverse) 2 The frequency of a sound signal refers to how frequently the vibrations occur A high-frequency sound is heard at a high (pitch) (wavelength) (speed) 3

### **Concept-Development 2-1 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 25-2 Practice Page**

15 3 5 For any sample circle, the distance to the apex of the cone will be 5 times greater than the radius of the circle 12 345 CONCEPTUAL PHYSICS [nhvweb.net](http://nhvweb.net)

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### **Concept-Development 2-2 Practice Page**

B CONCEPTUAL PHYSICS Chapter 2 Mechanical Equilibrium 7 Name Class Date © Pearson Education, Inc, or its affiliate(s) All rights reserved

### **Conceptual Physics Workbook**

Graphing Displacement, Velocity, and Acceleration 23 Vector Force Table 34 Free Fall 41 Work, Power, and Conservation of Energy 51 development Modified January 4, 2015 (check back of page for more assignments) Page 5 of 262 Modified January 4, 2015 (check back of page for more assignments) Page 8 of 262 2 A) Look at lines a and b

### **[www.lps.org](http://www.lps.org)**

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 I meter apart Sketch the ball at successive 1-second intervals all the way to the wall (neglect resistance) a

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

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 System A? (Y) (N)

### **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 “hang in the air” and defy gravity The time that a jumper is airborne with feet off the ground is called hang time Ask your friends to estimate the hang time of the great jumpers They may say two or

### **bpsphysics.weebly.com**

Newton understood the concept of inertia , developed by Galileo, that without an outside force, moving objects continue to move 23 The mass of one object decreases by half 24 The distance between the objects' centers of mass doubles (page 244) 33 Circle the letter that identifies the location where Earth's gravitational

### **iblog.dearbornschools.org**

Concept-Development Practice Page 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  $n$  a The net force on the crate (zero) greater than zero) b Evidence for this is IV O 2

### **www.lcps.org**

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