

# 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

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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-

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

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#### Concept-Development 5-3 Practice Page

dc a b c CONCEPTUAL PHYSICS Chapter 5 Projectile Motion 23 Name Class Date © Pearson Education, Inc, or its affi liate(s) All rights reserved

#### 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 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

### 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 [www.lcps.org](http://www.lcps.org)

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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 [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 6-5 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 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 19-1 Practice Page

CONCEPTUAL PHYSICS 94 Chapter 19 Liquids © Pearson Education, Inc, or its affiliate(s) All rights reserved 3 Assume the balloon is replaced by a 05-kilogram

### Chapter 2 Newton's First Law of Motion-Inertia The ...

CONCEPTUAL PRACTICE PAGE Chapter 2 Newton's First Law of Motion-Inertia The Equilibrium Rule:  $\Sigma F = 0$  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

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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

### **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 21-1 Practice Page**

Concept-Development 21-1 Practice Page Temperature and Heat 1 Complete the table 2 Suppose you apply a flame and heat one liter of water, raising its temperature  $10^{\circ}\text{C}$  If you transfer the same heat energy to two liters, how much will the temperature rise? For three liters? Record your answers on the blanks in the drawing at the right 3