

This chapter has 49 questions.  
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1. The temperature of a sample of a substance is a way to gauge
- ☐ the average momentum of the fastest 50% of the molecules in the sample.

☐ the kinetic energy of the fastest moving molecule in the sample.

☐ the average momentum of the molecules in a sample.

☒ the average kinetic energy of the molecules in that sample.

Select

Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Topic: Temperature and its measurement

Type: Conceptual

Type: Definition

Multiple Choice Question

MC The temperature of a sample of a substance i...

2. After I dip a cup of water from the ocean, I can conclude that
- ☐ the temperatures are the same but the water in the cup has more energy.

☒ the temperature of the water in the cup is the same as the temperature of the water in the ocean.

☐ the ocean temperature is higher because it has more molecules in it.

☐ the ocean temperature is higher because it never loses its heat.

Select

Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Topic: Temperature and its measurement

Type: Conceptual

Multiple Choice Question

MC After I dip a cup of water from the ocean, I...

3. Heat is a form of energy, and it has long been known that heat energy will naturally flow
- ☒ from hot to cold objects.

☐ from cold to hot objects.

☐ from solids to liquids, but only when the solid is melting.

☐ from liquids to solids, except when the solid is melting.

Select

Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Topic: Heat and specific heat capacity

Type: Conceptual

Type: Definition

Multiple Choice Question

MC Heat is a form of energy, and it has long be...

4. The amount of heat is often measured in calories. If I add 1 calorie of heat energy to 1 gram of water, the temperature of the water will
- ☐ decrease by 1°F.

☐ decrease by 1°C.

☐ stay the same, since water has a very high specific heat.

☐ increase by 1°F.

☒ increase by 1°C.

Select

Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Topic: Heat and specific heat capacity

Type: Conceptual

Type: Definition

Multiple Choice Question

MC The amount of heat is often measured in calo...

5. On a cold winter's morning you awake and step out of bed. One foot is on the tile floor and the other is on a rug on the floor. Which statement is true?
- ☐ The tile feels colder because it is smoother than the rug.

☐ The tile feels colder because it is connected to the cold ground outside.

☒ The tile feels colder because it conducts heat more rapidly away from your foot.

☐ The tile feels colder because it cannot absorb water like the rug can.

Select

Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Topic: The flow of heat

Type: Conceptual

Multiple Choice Question

MC On a cold winter's morning you awake...

Select



6. Two identical objects, one light colored and the other dark colored, are at the same elevated temperature,  $50^{\circ}\text{C}$ . You now place them in a dark, much cooler room. Which object will reach the room's temperature first?

- ☐ The light colored object
- ☐ The dark colored object
- ☐ Both reach room temperature at same time.
- ☐ As strange as it seems, neither object will ever reach room temperature because energy conservation prevents the loss of energy.

Accessibility: Keyboard Navigation

Difficulty: Medium

Gradable: automatic

Topic: The flow of heat

Type: Conceptual

Multiple Choice Question

MC Two identical objects, one light colored and...

7. Two identical objects, one light colored and the other dark colored, are at the same cool temperature. Then, you place them outside, on a warm day, in direct sunlight. Which object will warm up faster?

- ☐ The dark one
- ☐ The light one
- ☐ Both warm up at the same rate.
- ☐ As strange as it seems, neither object will ever warm up because energy conservation prevents the addition of energy.

Select



Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Topic: The flow of heat

Type: Conceptual

Multiple Choice Question

MC Two identical objects, one light colored and...

8. The lowest possible temperature a body can approach is called

- ☐ "mighty" cold.
- ☐ absolute zero.
- ☐ triple point.
- ☐ critical temperature.
- ☐ triple absolute zero.

Select



Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Topic: Temperature and its measurement

Type: Conceptual

Multiple Choice Question

MC The lowest possible temperature a body can a...

9. Water freezes at  $273^{\circ}$  on the \_\_\_\_\_ scale.

- ☐ Fahrenheit
- ☐ Celsius
- ☐ Rankin
- ☐ Kelvin
- ☐ Vernier

Select



Accessibility: Keyboard Navigation

Difficulty: Easy

Topic: Temperature and its measurement

Type: Conceptual

Multiple Choice Question

MC Water freezes at  $273^{\circ}$  on the \_\_\_\_\_ sc...

10. When the temperature of the air in a balloon is raised, the volume of the balloon

- ☐ increases.
- ☐ stays the same.
- ☐ decreases.

Select



Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Topic: Gas behavior and the first law

Type: Conceptual

Multiple Choice Question

MC When the temperature of the air in a balloon...

Select



11. Objects A and B are at the same temperature. Object A now has its temperature increased by one Fahrenheit degree, while B has its temperature increased by one Kelvin degree. Which object now has higher temperature?

- ☐ Object A.
- ☐ Object B.
- ☐ Both have the same temperature.
- ☐ It is impossible to tell from this data.

Multiple Choice Question

MC Objects A and B are at the same temperature....

Accessibility: Keyboard Navigation


Difficulty: Medium

Gradable: automatic

Topic: Temperature and its measurement

Type: Conceptual  
Type: Definition

12. Which process does not transfer heat energy between objects?
- ☐ Convection.
  - ☐ Radiation.
  - ☐ Reflection.
  - ☐ Conduction.


Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: The flow of heat

Multiple Choice Question  
MC Which process does not transfer heat energy ...

Type: Conceptual  
Type: Definition


13. A mixture consists of 70 g of ice and 60 g of liquid water, both at 0°C. (The latent heat of fusion of water is 80 cal/g and the specific heat capacity of water is 1.0 cal/g C°.) The amount of heat that must be added to melt all of the ice is about
- ☐ 4000 cal.
  - ☐ 5600 cal.
  - ☐ 21,600 cal.
  - ☐ 32,400 cal.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Heat and specific heat capacity  
Type: Numerical

Multiple Choice Question  
MC A mixture consists of 50 g of ice and 60 g o...


14. While studying for this quiz you realize that you still have 100 g of lukewarm coffee at 40°C left in a paper cup. When you pour 20 g of boiling water into the cup, the temperature of the resulting coffee-like mixture will be now
- ☐ 50°C.
  - ☐ 60°C.
  - ☐ 67°C.
  - ☐ 70°C.
  - ☐ 80°C.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Heat and specific heat capacity  
Type: Numerical

Multiple Choice Question  
MC While studying for this quiz you realize tha...


15. A box of graham crackers is labeled "120 Calories per serving." Assuming this means 120 kcal, and recalling that 4.16 J = 1 cal, the energy of a serving of the graham crackers is about
- ☐  $5 \times 10^5$  J.
  - ☐  $5 \times 10^4$  J.
  - ☐  $4.2 \times 10^3$  J.
  - ☐ 120 J.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Joule's experiment and the first law of thermodynamics  
Type: Numerical


Multiple Choice Question  
MC A box of graham crackers is labeled 12...

16. The temperature of 100 g of water is to be raised from 10°C to 90°C. The energy needed to do this is about
- ☐  $1 \times 10^3$  cal.
  - ☐  $5 \times 10^3$  cal.
  - ☐  $6 \times 10^3$  cal.
  - ☐  $8 \times 10^3$  cal.
  - ☐  $5.4 \times 10^4$  cal.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Heat and specific heat capacity  
Type: Numerical

Multiple Choice Question  
MC The temperature of 100 g of water is to be ...

Select 


17. Which of the following temperatures is the lowest?
- ☐ 0°C.
  - ☐ 0°F.
  - ☐ 263 K.
  - ☐ All are the same.

Multiple Choice Question  
MC Which of the following temperatures is the l...

Accessibility: Keyboard Navigation  
Difficulty: Medium

Gradable: automatic  
Topic: Temperature and its measurement  
Type: Numerical

18. Absolute zero is the temperature
- ☐ on the coldest day recorded at Nome, Alaska.
  - ☐ at which an ideal gas would exert zero pressure.
  - ☐ of the freezing point of water.
  - ☐ of the boiling point of liquid helium.
  - ☐ of the freezing point of mercury.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Temperature and its measurement  
Type: Conceptual  
Type: Definition

Multiple Choice Question  
MC Absolute zero is the temperature

19. Four samples of steel, lead, alcohol, and glass all have the same mass and are all initially at 20°C. After 100 calories of heat are added to each sample, the final temperatures are 38.2°C for the steel, 85.6°C for the lead, 23.4°C for the alcohol, and 30°C for the glass. Which of these four materials has the largest specific heat capacity?
- ☐ The steel.
  - ☐ The lead.
  - ☐ The alcohol.
  - ☐ The glass.
  - ☐ All have the same heat capacity, since all absorbed 100 cal of heat.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Heat and specific heat capacity  
Type: Conceptual

Multiple Choice Question  
MC Four samples of steel, lead, alcohol, and gl...

20. On a cold day, a metal fence post feels colder to the touch than a tree. This sensation of different temperatures is explained by the fact that
- ☐ the temperature of the tree is higher.
  - ☐ the specific heat capacity of the metal is higher.
  - ☐ the specific heat capacity of the wood in the tree is higher.
  - ☐ the thermal conductivity of the metal is higher.
  - ☐ the thermal conductivity of the wood in the tree is higher.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: The flow of heat  
Type: Conceptual

Multiple Choice Question  
MC On a cold day, a metal fence post feels cold...

21. The term *heat* in physics is
- ☐ equivalent to temperature.
  - ☐ equivalent to internal energy.
  - ☐ energy transferred to a body because of a difference in temperature.
  - ☐ any energy transferred to a body that raises the temperature of the body.
  - ☐ the same as work.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Medium  
Gradable: automatic  
Topic: Heat and specific heat capacity  
Type: Conceptual  
Type: Definition

Multiple Choice Question  
MC The term heat in physics is

22. During the course of a demonstration the professor is called away. When he returns he finds a beaker of water that was at room temperature is now at a slightly higher temperature. There is a stirring rod on the desk and a cigarette lighter. The professor can assume that the temperature increase is due to
- ☐ heat added to the system.
  - ☐ mechanical work done on the system.
  - ☐ either heat added or mechanical work done.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Joule's experiment and the first law of thermodynamics  
Type: Conceptual

Multiple Choice Question  
MC During the course of a demonstration the pro...

23. Heat flows into a gas in a piston and the gas performs some work on its surroundings. The amount of work done is less than the heat added. In this situation,
- ☐ the internal energy of the gas decreased.
  - ☐ the internal energy of the gas increased.

Select 

- ☐ the internal energy of the gas did not change.
- ☐ the gas experienced a phase change.
- ☐ energy is not conserved and so it cannot happen.

Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Multiple Choice Question

Topic: Joule's experiment and the first law of thermodynamics

MC Heat flows into a gas in a piston and the ga...

Type: Conceptual

24. Compare the internal energy of one gram of steam to that of one gram of water if both are at 100°C.

- ☐ The internal energy of the steam will be higher.
- ☐ The internal energy of the water and steam are the same.
- ☐ The internal energy of the water will be higher.

Select



Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Multiple Choice Question

Topic: Joule's experiment and the first law of thermodynamics

MC Compare the internal energy of one gram of s...

Type: Conceptual

25. An ice cube of mass 100 g and at 0°C is dropped into a Styrofoam cup containing 200 g of water at 25°C. (The latent heat of fusion of water is 80 cal/g and the specific heat capacity of water is 1.0 cal/g C°.) Assuming the cup does not exchange any heat with the outside, what will happen?

- ☐ All of the water will freeze.
- ☐ Some of the water will freeze.
- ☐ Nothing will happen.

Select



- ☐ Some of the ice will melt.
- ☐ All of the ice will melt.

Accessibility: Keyboard Navigation

Difficulty: Hard

Gradable: automatic

Multiple Choice Question

Topic: Heat and specific heat capacity

MC An ice cube of mass 100 g and at 0°C is ...

Type: Numerical

26. Heat is added to an ideal gas and the gas expands. In such a process the temperature

- ☐ must always increase.
- ☐ must always decrease.
- ☐ will remain the same if the work done equals the heat added.
- ☐ will remain the same if the work done is less than the heat added.
- ☐ will remain the same if the work done exceeds the heat added.

Select



Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Multiple Choice Question

Topic: Heat and specific heat capacity

MC Heat is added to an ideal gas and the gas ex...

Type: Conceptual

27. Hot cider is poured into a metal cup. Shortly thereafter the handle of the cup becomes hot. This is due to the process of

- ☐ radiation.
- ☐ convection.
- ☐ conduction.
- ☐ will remain the same if the work done exceeds the heat added.

Select



Accessibility: Keyboard Navigation

Difficulty: Easy

Gradable: automatic

Multiple Choice Question

Topic: The flow of heat

MC Hot cider is poured into a metal cup...

Type: Conceptual

28. A physics student has to make a choice in the color of paint to put on her geosynchronous communication satellite, MYSAT1. Considering most of its orbit is in sunlight, the decision of a light versus dark color paint will depend on which concept below?

- ☐ A light paint would be better for keeping the satellite cool in sunlight.
- ☐ A dark paint would be better for keeping the satellite cool in sunlight.
- ☐ A light paint would be better in the sunlight and in Earth's shadow for preventing overheating.
- ☐ A dark paint would overheat the satellite when it passes through Earth's shadow but not in sunlight.

Select



Accessibility: Keyboard Navigation

Difficulty: Medium

Gradable: automatic

Multiple Choice Question

Topic: The flow of heat

MC A physics student has to make a choice in th...

Type: Conceptual

29. Which of the following units is not an energy unit?

- ☐ Joule
- ☐ Kilowatt-hour

Select






- ☐ Horsepower  
☐ Kilocalorie  
☐ Calorie

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Joule's experiment and the first law of thermodynamics  
Type: Conceptual  
Type: Definition

Multiple Choice Question  
MC Which of the following units is not an energ...


30. The temperature of a 50 g sample of aluminum is raised from 20°C to 60°C when 440 cal of heat are added. The specific heat capacity of the aluminum is
- ☐ not calculable from this data.  
☐ 0.11 cal/g C°.  
☐ 15.4 cal/g C°.  
☐ 0.91 cal/g C°.  
→ ☐ 0.22 cal/g C°.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Heat and specific heat capacity  
Type: Numerical

Multiple Choice Question  
MC The temperature of a 50 g sample of aluminum...


31. If you stand near a large fire, your face will be cooler if you place your hand between your face and the fire. Your hand is preventing heat flow by
- ☐ latent heat.  
☐ conduction.  
☐ convection.  
→ ☐ radiation.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: The flow of heat  
Type: Conceptual

Multiple Choice Question  
MC If you stand near a large fire, your face wi...


32. Whenever a gas is compressed,
- ☐ work must be done on the gas.  
☐ its internal energy must get smaller.  
☐ heat must leave the gas.  
☐ the temperature of the gas must get smaller.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Joule's experiment and the first law of thermodynamics  
Type: Conceptual

Multiple Choice Question  
MC Whenever a gas is compressed,

33. After working hard outside on a hot summer day, placing a towel soaked in cold water on your head can feel very good. The reason the towel feels cold to you is that
- ☐ low temperature heat from the towel conducts to your head, lowering your temperature.  
☐ cold air radiates from the towel to your head.  
☐ cold air from the towel converts to your head.  
→ ☐ heat conducts from your head to the towel, lowering your temperature.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: The flow of heat  
Type: Conceptual

Multiple Choice Question  
MC After working hard outside on a hot summer d...


34. You lose your left sandal during a hot afternoon at the beach. Thus, you must hike back to your vehicle with one bare foot across the burning sand. Why does the bare foot get so much hotter?
- ☐ The sandal insulates the right foot from the hot sand.  
☐ The sandal conducts heat away from your right foot and into the sand.  
☐ The sandal is in the shadow of your foot, but the sand is not.  
☐ Heat flows from your right foot into your left foot and then out into the sand, thus cooling off your right foot.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: The flow of heat  
Type: Conceptual

Multiple Choice Question  
MC You lose your left sandal during a hot after...

35. Which object is hotter?
- ☐ Object 1 at T = 0°C.

Select 

- ☐ Object 2 at  $T = 0^{\circ}\text{F}$ .
- ☐ Object 3 at  $T = 0\text{ K}$ .

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: Temperature and its measurement  
Type: Conceptual

Multiple Choice Question  
MC Which object is hotter?

36. The air at the beach is the same temperature everywhere, but you feel cooler under a beach umbrella because
- ☐ the sand underneath you cools off more rapidly than the water vapor in the air.
  - ☐ the umbrella gets hot, which thereby cools off the air underneath it.
  - ☐ solar radiation is not heating up your skin.
  - ☐ a convection cell forms under the umbrella, thereby cooling you off.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: The flow of heat  
Type: Conceptual

Multiple Choice Question  
MC The air at the beach is the same temperature...


37. When you apply an alcohol swab to your skin, it feels cool because
- ☐ your skin transfers a bit of heat to the liquid alcohol and the alcohol evaporates.
  - ☐ the density of alcohol is less than  $1\text{ g per cm}^3$ .
  - ☐ germs are destroyed by the alcohol, and they give off cold heat as they die.
  - ☐ of nothing—it is an illusion, because evaporating alcohol is actually hotter than liquid alcohol.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Easy  
Gradable: automatic  
Topic: The flow of heat  
Type: Conceptual

Multiple Choice Question  
MC When you apply an alcohol swab to your skin,...


38. An ice cube is floating in a glass of water with the water level just reaching the top of the glass. If the temperature in the surrounding area is above freezing, the ice cube will melt. When it does,
- ☐ water will begin to spill over the top of the glass.
  - ☐ the water level in the glass will remain unchanged as the ice continues to melt.
  - ☐ the water level in the glass will begin to go down.
  - ☐ it is impossible to tell what the water level will do from the information given.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Medium  
Gradable: automatic  
Topic: Heat and specific heat capacity  
Type: Conceptual

Multiple Choice Question  
MC An ice cube is floating in a glass of water ...

39. Water in a dish is set on a table in an initially empty closed room and begins to evaporate. The temperature in the room will
- ☐ begin to increase.
  - ☐ begin to decrease.
  - ☐ remain the same.
  - ☐ not be able to be predicted based on the information given.

Select 

Accessibility: Keyboard Navigation  
Difficulty: Hard  
Gradable: automatic  
Topic: Joule's experiment and the first law of thermodynamics  
Type: Conceptual

Multiple Choice Question  
MC Water in a dish is set on a table in an init...

40. During a phase change the temperature of a system will be \_\_\_\_\_ as heat is added.
- constant

Select 

Difficulty: Easy  
Gradable: automatic  
Topic: Heat and specific heat capacity  
Type: Conceptual  
Type: Definition

Fill-in-the-Blank Question  
FB During a phase change the temperature of a s...


41. The first law of thermodynamics is an extension of the principle of conservation of \_\_\_\_\_ that we first met in mechanics.
- energy

Select 

Gradable: automatic  
Topic: Gas behavior and the first law

Fill-in-the-Blank Question  
FB The first law of thermodynamics is an extens...

42. Heat will not be transferred between two bodies that are at the same \_\_\_\_\_.
- temperature

Select 

Fill-in-the-Blank Question  
FB Heat will not be transferred between two bod...

Difficulty: Easy  
Gradable: automatic

Topic: The flow of heat  
Type: Conceptual

43. The transfer of heat from a furnace to the house through ducts is by the process of \_\_\_\_\_.

convection

Select

Fill-in-the-Blank Question

FB The transfer of heat from a furnace to the h...

Difficulty: Easy  
Gradable: automatic  
Topic: The flow of heat  
Type: Conceptual

44. A student uses a thermometer calibrated in Kelvin units. A temperature change of 20 K is equivalent to a change of how many degrees on the Celsius scale? \_\_\_\_\_

20

Select

Fill-in-the-Blank Question

FB A student uses a thermometer calibrated in K...

Difficulty: Easy  
Gradable: automatic  
Topic: Temperature and its measurement  
Type: Numerical

45. The internal energy of a system such as helium gas can be identified as the total mechanical energy of the \_\_\_\_\_.

atoms

Select

Fill-in-the-Blank Question

FB The internal energy of a system such as heli...

Difficulty: Easy  
Gradable: automatic  
Topic: Gas behavior and the first law  
Type: Conceptual

46. When water boils, the primary form of heat flow in the water is \_\_\_\_\_ (conduction, convection, radiation).

convection

Select

Fill-in-the-Blank Question

FB When water boils, the primary form of heat f...

Difficulty: Easy  
Gradable: automatic  
Topic: The flow of heat  
Type: Conceptual

47. When heat is added to a solid object, the \_\_\_\_\_ of the object must increase.

temperature

Select

Fill-in-the-Blank Question

FB When heat is added to a solid object, the \_\_\_\_.

Difficulty: Easy  
Gradable: automatic  
Topic: The flow of heat  
Type: Conceptual

48. The process in which some substances may remain in a liquid state even though their temperature may dip below the freezing point is known as \_\_\_\_\_.

supercooling

Select

Fill-in-the-Blank Question

FB The process in which some substances may rem...

Difficulty: Hard  
Gradable: automatic  
Topic: Gas behavior and the first law  
Type: Conceptual  
Type: Definition

49. Thermal-electric solar power stations typically experience fluctuations in available sunlight throughout the day, but can use \_\_\_\_\_ to smooth out electrical power levels to their customers.

phase-change materials

Select

Fill-in-the-Blank Question

FB Thermal-electric solar power stations typica...

Difficulty: Hard  
Gradable: automatic  
Topic: Gas behavior and the first law  
Type: Conceptual  
Type: Definition