

# 8| Heating and cooling

## literacy in science

Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Answer all the questions below:

 Click mouse to reveal answer

1) Unscramble the following words:

sstate

ngmelti

sdoli

trmatuepere

2) Make three sentences using the following nine words or phrases:

materials

celsuis

heat transfer

heat up

temperature

conduction

change of state

thermometer

radiation convection

3) Match the word or phrase with the right meaning:

Temperature

How heat energy is transferred through materials

Conduction

How heat is transferred in liquids and gases in currents

Convection

Measures how much heat energy an object has

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Answer all the questions below:

1) Unscramble the following words:

states

melting

solid

temperature

2) Make three sentences using the following nine words or phrases:

materials

celsius

heat transfer

heat up

temperature

conduction

change of state

thermometer

radiation convection

3) Match the word or phrase with the right meaning:

Temperature

Measures how much heat energy an object has

Conduction

How heat energy is transferred through materials

Convection

How heat is transferred in liquids and gases in currents

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## complete the sentence

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Place the right word or words to complete the sentence:

 [Click mouse to reveal answer](#)

liquids

solids

degrees

wave

radiation

escaping

reduce

quickly

conduction

- a) The temperature of a substance is measured in \_\_\_\_\_ Celsius.
- b) The temperature of an object depends on how \_\_\_\_\_ its particles are moving.
- c) Heat energy can be transferred by \_\_\_\_\_, convection and radiation.
- d) Conduction in \_\_\_\_\_, is the transfer of heat by particles vibrating against one another.
- e) Convection in \_\_\_\_\_ and gases is the transfer of heat by currents.
- f) Thermal insulators \_\_\_\_\_ heat transfer to the surroundings.
- g) Radiation is a \_\_\_\_\_ which travels at the same speed as light.
- h) Heat transfer by \_\_\_\_\_ does not need a medium.
- i) Good insulators prevent heat from \_\_\_\_\_ because they contain trapped air.

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## complete the sentence

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Place the right word or words to complete the sentence:

liquids

solids

degrees

wave

radiation

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reduce

quickly

conduction

- a) The temperature of a substance is measured in degrees Celsius.
- b) The temperature of an object depends on how quickly its particles are moving.
- c) Heat energy can be transferred by conduction, convection and radiation.
- d) Conduction in solids, is the transfer of heat by particles vibrating against one another.
- e) Convection in liquids and gases is the transfer of heat by currents.
- f) Thermal insulators reduce heat transfer to the surroundings.
- g) Radiation is a wave which travels at the same speed as light.
- h) Heat transfer by radiation does not need a medium.
- i) Good insulators prevent heat from escaping because they contain trapped air.