TOPIC 6 THERMAL ENERGY

Name:		Date:	
		Class:	

EXERCISE 6.1: THERMAL TRANSFER

Marks: ____ / 20

Checked by:

Excellent Good

Well done Needs improvement

Very Good Do correction

Section A: Choose the best answer. (5 marks)

1. Heat energy always moves from

A. Cold object to hot object

B. High temperature to low temperature

C. Equal temperature objects

D. Small object to large object

2. Which method transfers heat through particle vibrations in solids?

A. Radiation

B. Convection

C. Conduction D. Reflection

3. Convection happens mainly in:

A. Solids only

B. Liquids and gases

C. Metals only

D. Vacuum

4. Heat from the Sun reaches Earth mainly by:

A. Conduction

B. Convection

C. Radiation D. Evaporation

5. Which situation is an example of radiation?

A. Heating a metal spoon

B. Boiling soup

C. Feeling warmth from a candle

D. Stirring hot tea

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Section B: Answer ALL of the questions. (15 marks)

6. Complete the sentences using the words below. [6]

conduction, convection, radiation, hotter, colder, infrared

a) Heat moves from a _____object to a colder object.

b) Heat transfer through solids by particle vibrations is called _____.

c) Heat transfer in liquids and gases by movement of particles is called _____.

d) Heat transfer by waves is called _____.

e) Radiation uses _____ waves.

f) Heat moves towards the _____region.

7. Define

a. conduction. _____

_____ [1]

b. convection. _____

_____ [1]

c. radiation. _____

_____ [1]

8. Two spoons are placed in a cup of hot tea.

Spoon A: Metal spoon



Spoon B: Wooden spoon

a) Which spoon will feel hotter after 5 minutes? [1]

_____ b)

Explain why. [1]

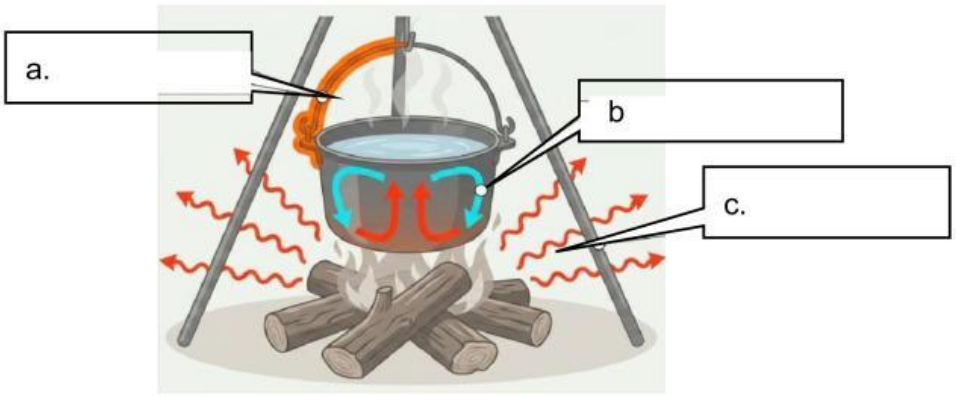
_____

c) Predict what would happen if both spoons were left for a longer time. [1]

_____

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9. Summary: Complete the image. [3]



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