



# WorksheetCloud.com - Question Sheet 1

**Subject:** Grade 7 Natural Sciences  
**Topic:** Heat transfer, insulation and energy saving  
**Total:** 34 Marks

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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**Question 1: True/False**

2 marks

Many insulating materials have many small pockets of trapped air.

**TRUE**

**FALSE**

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**Question 2: True/False**

2 marks

If humans do not wear proper clothing in winter, their body temperatures drop because cold air is transferred to their bodies.

**TRUE**

**FALSE**

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**This image refers to question: 3**



**Question 3: Please Fill In The Blanks**

4 marks

To save electricity, hot water geysers can use (1) to heat water. Such systems are called (2) geysers.

Possible Answers: fire | furnace | solar | the sun's energy

<b>1</b>	
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<b>2</b>	
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**Question 4: Please Fill In The Blanks**

8 marks

Heating can be described as the (1) of (2) from a (3) to a (4) .

Possible Answers: transfer | energy | hotter body | cooler body | cold air | temperature | conversion

<b>1</b>	
<b>3</b>	

<b>2</b>	
<b>4</b>	

**Question 5: Please Fill In The Blanks**

4 marks

The temperature of your body is about (1) , much warmer than the temperature of the air around you on a winter's day. You feel cold because your body (2) .

Possible Answers: 32 degrees Celsius | 37 degrees Celsius | absorbs the cold from the air | radiates heat

<b>1</b>	
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<b>2</b>	
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**Question 6: True/False**

2 marks

Wood is a poor conductor of heat.

<b>TRUE</b>
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<b>FALSE</b>
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**This image refers to question: 7**



<http://www.cdpalu.co.za/double-glazed-windows/>

**Question 7: True/False**

2 marks

Double glazed windows are windows that have been tinted to block out the sun's heat.

<b>TRUE</b>
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<b>FALSE</b>
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**This image refers to question: 8**



**Question 8: Text Input**

3 marks

This is a picture of cavity walls of a building. ... material has been placed between the two brick layers.

**Question 9: Multiple Choice**

4 marks

Which statement best explains why cooking pots are made of metal?

- |          |   |
|----------|---|
| <b>A</b> | Metals can conduct heat from the stove to the food in the pot so that the food is cooked. |
| <b>B</b> | Metals can keep heat inside the pot so that cooked food does not cool down quickly.       |
| <b>C</b> | Metals do not rust easily and therefore the food does not get affected by chemicals.      |
| <b>D</b> | Metals can withstand high temperatures and therefore the food does not burn.              |

**Question 10: Text Input**

3 marks

The transfer of heat from one place to another by the movement of liquid or gas particles is called ... .

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**Total: 34 Marks**