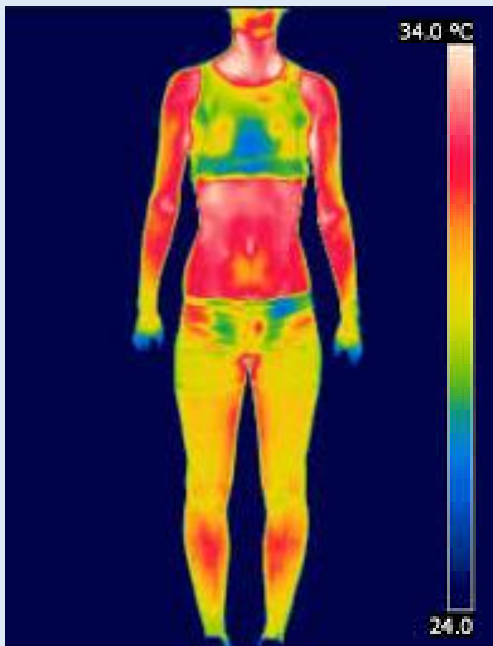


## S1 lesson 6 (18/1 to 22/1)

Lesson	Learning Intentions - I can...	Information	Task
4	1. State the names of the 3 methods of heat transfer.	"Three Methods of Heat Transfer" worksheet	Week 1 recap quiz. Watch the video. Complete the worksheet.
5	2. Explain the link between heat loss from buildings and the temperature difference between the inside and outside of the building.	"Slowing Down Heat Transfer" worksheet	Practical activity and answer questions 1-5.
6	3. Describe ways in which heat is lost from buildings.	"Keeping Heat In" Worksheet	Complete questions 1-6 on the worksheet.

I can describe ways in which heat is lost from buildings.

## Keeping Heat In



### Link for answer sheet:

<https://forms.office.com/Pages/ResponsePage>

A thermal imaging camera can show heat energy radiating from objects.

Look at the thermogram (thermal image) of a person - pay attention to the temperature scale too!

#### Questions

1. Compare the areas of covered and uncovered skin. What difference does this make to the temperature?
2. Where is the skin temperature coldest?
3. What is the temperature in °C?
4. Where is the skin temperature hottest?
5. What is the temperature in °C?

Thermal imaging can be used to analyse heat loss in houses. The hotter the area is, the greater the heat energy being lost is.

Every day, the heat that we lose from our homes has a significant impact on the planet (and our pockets!)

Through insulation, we can save heat, money and help the planet.



6. Analyse the thermal image of the house and make a list of the areas that you think are responsible for the most heat loss.



Read about insulation and methods to reduce heat loss in houses [here](#).

7. Suggest at least one method of reducing heat loss for each of the problem areas you identified in question 6.
8. Make a list of the methods of reducing heat loss that you can see in your own house.