

- 8 In some countries, snow can fall and collect on the ground.

Diagram 1 shows that after the snow has fallen, the sky can be clear, leaving the snow directly exposed to the Sun.

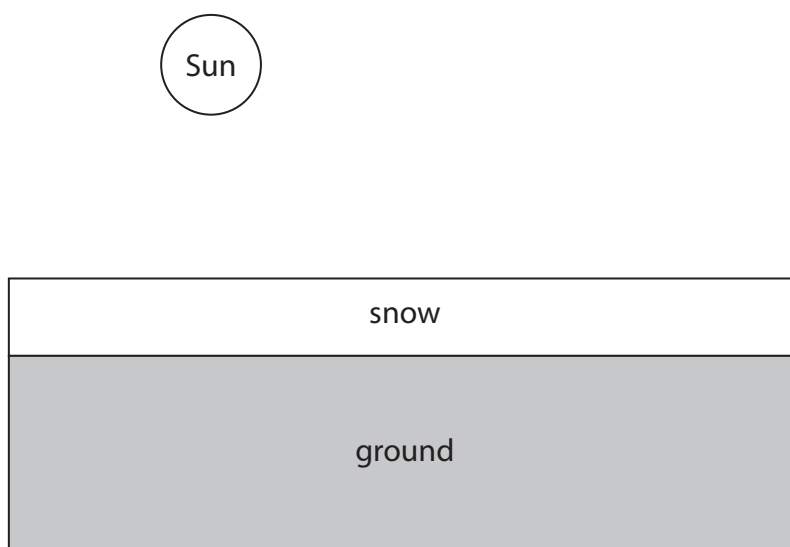


Diagram 1

- (a) Explain why the white snow will take a long time to melt, even though directly exposed to the Sun.

(2)

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(b) Diagram 2 shows a different piece of ground that has a metal drain cover.

If the snow lands on metal, the snow takes a shorter time to melt.

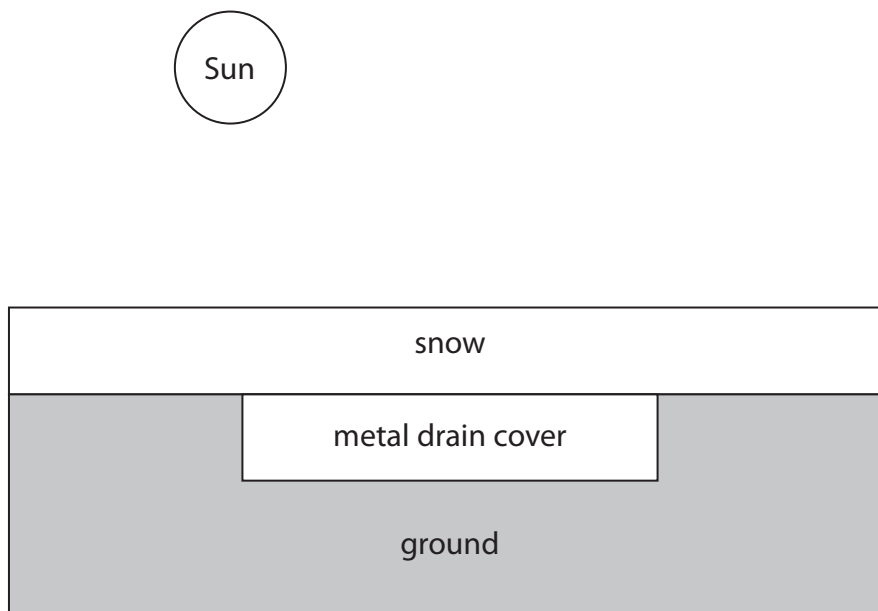


Diagram 2

Explain why the snow melts in a shorter time on the metal drain cover.

(2)

(c) Explain how a convection current above the snow increases the time taken for the snow to melt.

(2)

(Total for Question 8 = 6 marks)