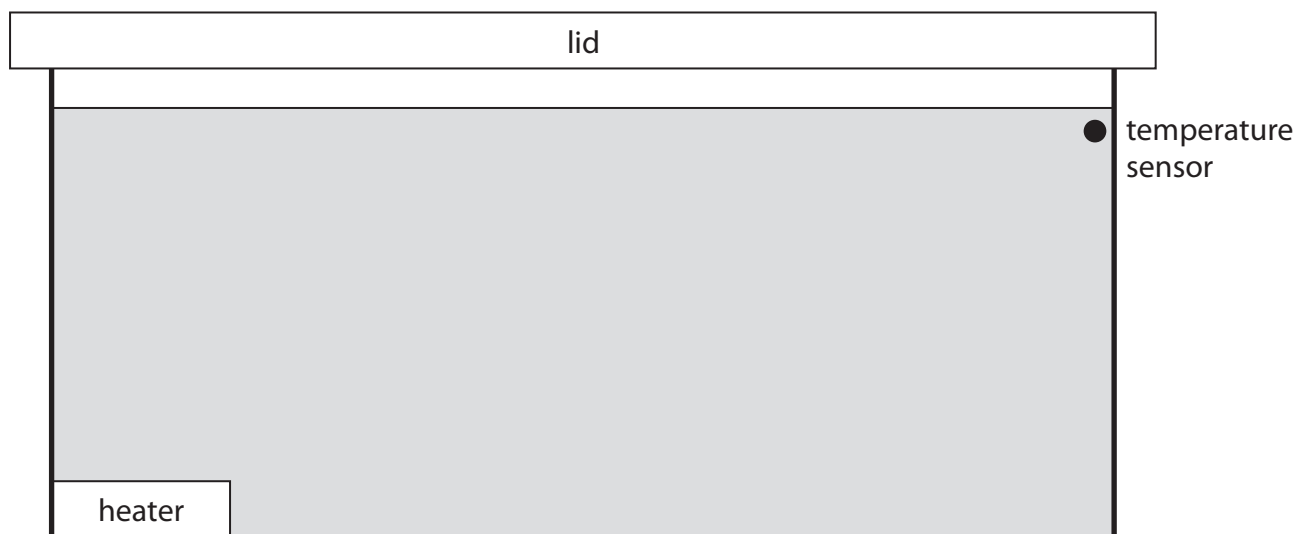


6 The diagram shows a container of water.

The container has a heater in the bottom corner, a temperature sensor and a lid.



(a) Explain how a convection current is formed in the container.

You may add to the diagram or draw your own diagram to support your answer.

(4)

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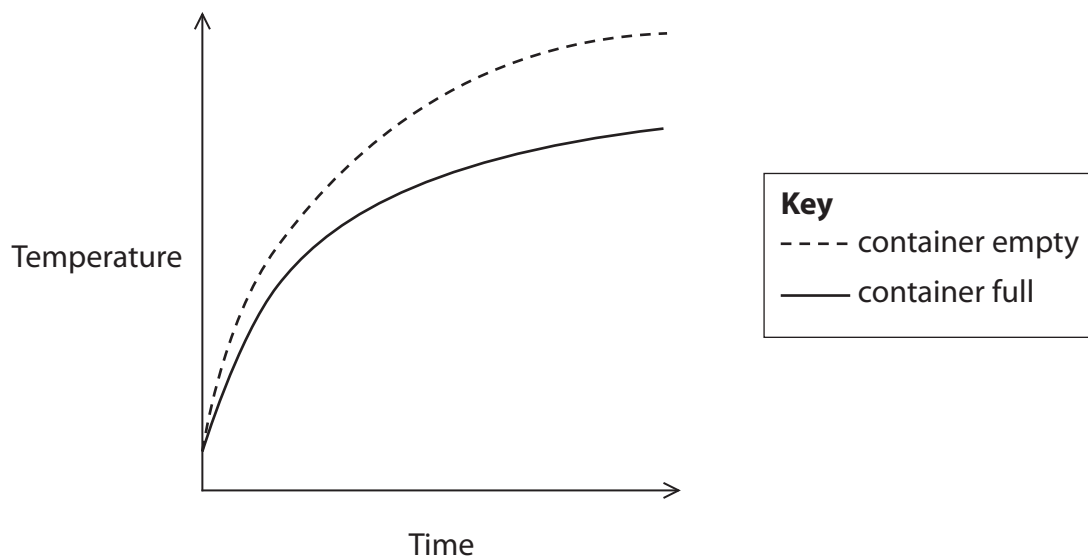
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- (b) The graph shows how the temperature sensor reading changes with time.

It shows the change in temperature when the container is full of water and when the container is empty.



- (i) Describe the relationship between temperature and time when the container is full of water.

(2)

- (ii) Explain the differences between the two curves on the graph.

(3)

(Total for Question 6 = 9 marks)

