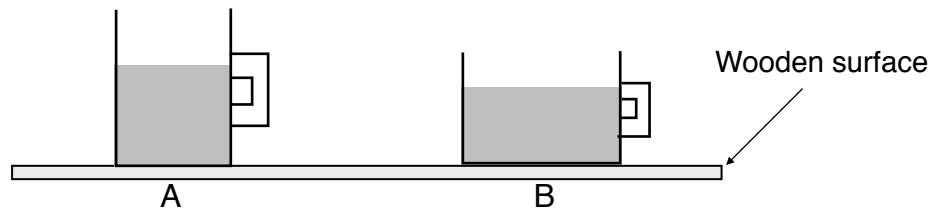


1 The diagram shows two different designs for tea mugs. Each mug is holding the same volume of tea.

Tea in the mugs cools down by various methods, including evaporation.



1 (a) (i) Explain how evaporation causes the tea to cool down. **[3 marks]**

.....

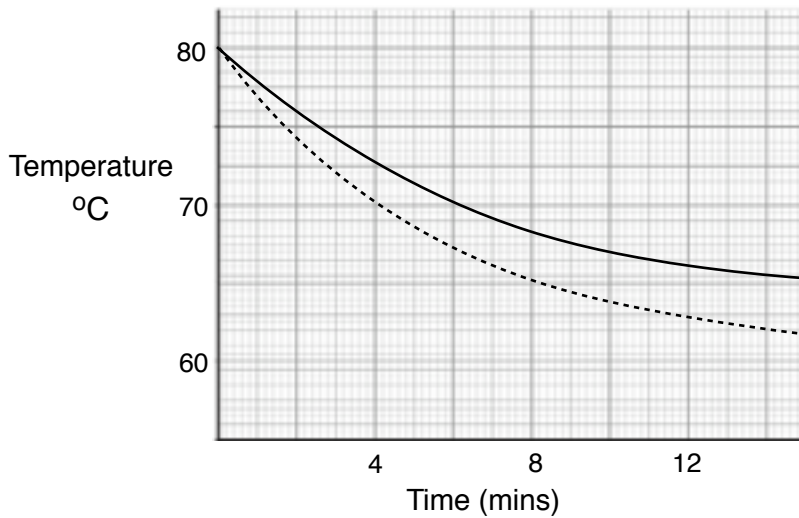
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1 (a) (ii) The graph shows how quickly the tea cooled down in each mug.

- The mugs are both white and made of the same material.
- The volume of tea in each mug is the same.



Label each line to show the cooling of the two mugs.

Use the letters **A** and **B** from the diagram above. **[1 mark]**

Explain your choice. **[1 mark]**

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1 (b) The tea cools down most rapidly over the first 4 minutes.

Explain why.

**[2 marks]**

.....

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.....

.....

**(Total 7 marks)**

**End**

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