



ASPIRE

Science Department

2023/2024 Year 4

Term 1, Week 7

INTERNATIONAL SCHOOL

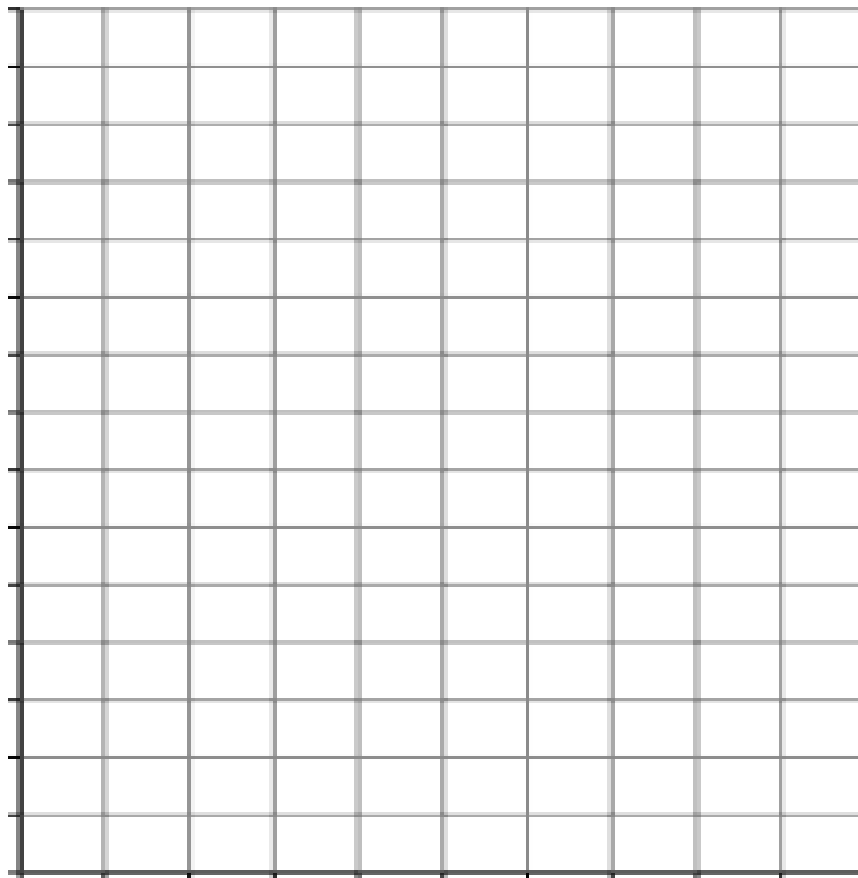
Name: .....

Class: .....

1. Class 4 investigated energy transfers. They measured the time it took for a bead in a blob of petroleum jelly to fall off a spoon in hot water at different temperatures. Here are their results.

Water temperature in °C	Time for bead to fall off in minutes
40	12
50	10
60	8
70	6
80	5
90	3
100	2

Time for bead to fall off in minutes



Water temperature in °C

**a. Why did the bead fall off the spoon?**

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**b. At which temperature did the bead take the longest time to fall off the spoon?**

.....

**c. At which temperature did the bead fall off the spoon quickest?**

.....

**d. Describe any pattern that you can see in the results.**

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**e. Write a reason for the pattern.**

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**f. Predict how much time it will take for the bead to fall off the spoon if the water temperature is 30 °C. Add this data point to your graph and join the dots.**

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