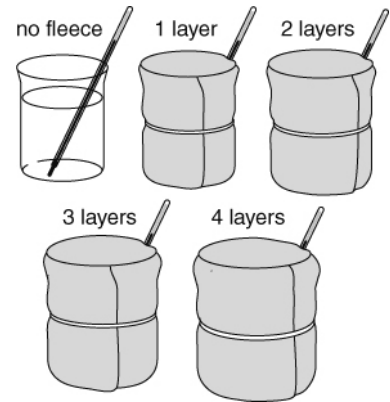




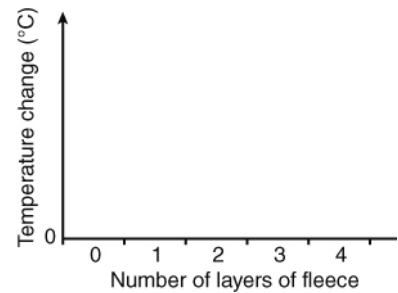
Name _____ Class _____ Date _____

Sally carried out an investigation to find out if using more layers of fleece provides better insulation. She put layers of fleece around four beakers, and poured hot water into all of them. She measured the temperature of the water in each beaker at the beginning, and again after 5 minutes. The table shows her results.

Number of layers	Temperature at start (°C)	Temperature at end (°C)	Temperature change (°C)
0	90	70	
1	90	79	
2	90	80	
3	90	81	
4	90	82	

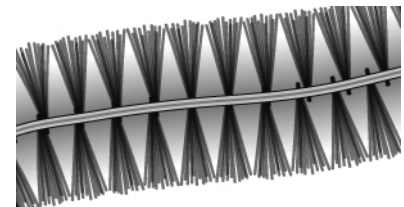


- 1 Work out the temperature change for each beaker, and write it in the table.
- 2 Draw a bar chart on graph paper to show Sally's results. Use axes like these and remember to include a title:
- 3 Write down two things that Sally needed to keep the same to make her test fair.



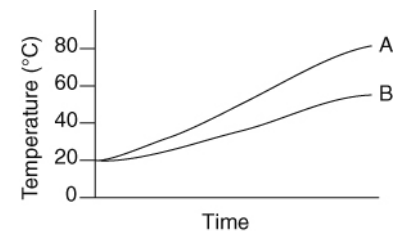
- 4 Write a conclusion for Sally's investigation.

- 5 This drawing shows a magnified view of fleece fabric. Why is fleece a good insulator?



Faruk investigated the best colour for a solar panel to heat water. He took two metal cans with lids. He painted one white all over and one black. He filled them with water and left them standing in the Sun for an hour. The graph shows his results.

- 6 Which line on the graph represents the white can?



Explain your answer.

I can...

- calculate results and draw bar charts
- recall ways of reducing energy transfer by conduction
- apply the idea of different colours being good or poor absorbers of radiation.