Science Investigation - Insulation

- 1. What is temperature? Work through the slides to answer this question. Stop when you get the answer. Write a few sentences explaining what temperature is.
- 2. What do you think would happen to the temperature of the hot chocolate liquid if it was left in a room for one hour? On the next slide, look at the statements and tell me which one do you agree with, and why.

Science Fact.

- 3. Heat always travels from warmer to cooler places, so it is likely that the temperature of the liquid would drop. Is there any way we could slow down this loss of heat? List your ideas.
- 4. One way we could do this would be to wrap some material around the container that the liquid is in. How could we carry out an investigation to compare which of these materials keeps the liquid warm the longest?
- 5. We could measure the temperature of the liquid every five minutes for half an hour, and then compare the results of the different materials.
- 6. We also need to make sure that we are conducting a fair test this means that we only change what we are testing, and keep everything else the same. What will we change? What will we keep the same?

- Look at the slides again Read the ones that talk about a fair test. Why is it so
 important that it is a fair test? Write a paragraph explaining why a fair test is
 important.
- 8. Now plan your investigation Use the template below as a model. You are going to choose 4 different materials to test. We will conduct the investigation in school next week.

