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**Hot Water Competition**

1. What was the starting temperature of your water? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

What was the final temperature of your water? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What was the change in temperature? \_\_\_\_\_\_\_\_\_\_\_\_

2. Which of the three methods of heat transfer do you think is most important to minimize in this contest in order to win? Explain why.

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3. What is a Conductor? What is an Insulator? Give examples of each and explain which ones would be the best materials to keep your water warm.

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4. How do *absorbers* and *reflectors* play a role in how objects cool down?

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5. What was successful about your device? What made your group choose this final design?

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6. Explain Newton’s Law of Cooling and how this can affect the temperature of your water.

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7. What could you have improved in your device? Why would you have made those improvements?

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