

Name: _____

Lab: Marshmallow Energy

Lab Credit Sheet

For Teacher Use Only:

Minutes _____

Approved _____

Answer the following questions with thoughtful, detailed answers in complete sentences. Cite specific examples from your observations and results of the lab activity.

1. Was the burning of the marshmallow a physical or chemical change? How do you know?
2. Was the burning of the marshmallow an endothermic or exothermic process? How do you know?
3. Where did the energy released by the marshmallow come from?
4. Show the calculations you used to calculate the heat energy released by the marshmallow, in joules.
5. After you converted joules to heat calories, and then to dietary Calories, how did your results compare to the dietary Calories listed on the marshmallow package? Show your calculation AND explain in words.
6. What assumptions did we make for this experiment? Why did these assumptions lead us to such a high experimental error?
7. Describe 1 change we could make to this experimental setup that would reduce the experimental error and get more accurate results.