Name _____ Hour _____Date _____

Catapult Analysis (attach to data collection and graphing)

1. What was your group attempting to achieve with its catapult design?

2. What are some of the factors your team considered when designing the catapult?

3. What did you do to try and make your marshmallow go farther?

4. What do you think would happen if the spoon were made of a different material?

5. What do you think would happen if the marshmallow was bigger? How would you have to adjust your catapult?

6. What types of energy were found in the catapult?

7. What were (if any) the energy transformations that took place? Was energy lost or conserved?

8. How did you increase the accuracy of your catapult?

9. What kind of changes increased the distance the catapult launched the marshmallow?

10. How did the catapult set the marshmallow in motion?

11. How does the plastic spoon get the energy to launch the marshmallow?

12. What type of energy does the marshmallow have when it is launched? Explain.

13. Which challenge did your catapult meet best, accuracy or distance? Include data and observations in your response.

14. What could you have done to make the catapult better?

15. What helped the catapult work as well as it did?

16. What did this activity teach you about motion and forces?

17. What problems did your team encounter when building or testing the catapult? How did you resolve them?

18. If you had to redo this project would you prefer to work alone or with a group? Explain.