Student Name: _____ Date: _____

Activity Sheet

Build your rocket:

1. Make a sketch of your design below. How long will your tube be? How many fins? Where will the fins go? Will you have a cone?

2. Make a paper tube around your canister and tape it. Make sure that the tube does not interfere with closing the lid of the canister.

3. Follow the directions on the design sheets to make a cone and fins. You can change the design or do your own if you like.

4. Decorate your rocket using colored pencils.

5. Launch your rocket and record the height.

Height of launch = _____

6. What are some things you could change (variable) on your rocket to improve its flight? List 3 below:

_____ _____ _____

7. Choose a variable to test and see how it affects your rocket.

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Aim:

Does the _____ affect how high the rocket goes in the air?

Predict what you think will happen. Why do you think so?

_____

_____

_____

Test and record your data below:

Write in your variable *(with unit if needed)*	**Height of Rocket (meters)**			
	Trial 1	Trial 2	Trial 3	Average

Conclusion *(State what your test results show about this relationship):*

_____

_____

_____

Student Name: _____ Date: _____

Competition:
Use your experimental results (and other groups) to design a rocket that will fly the highest. In case of a tie, the heaviest rocket will be the winner.