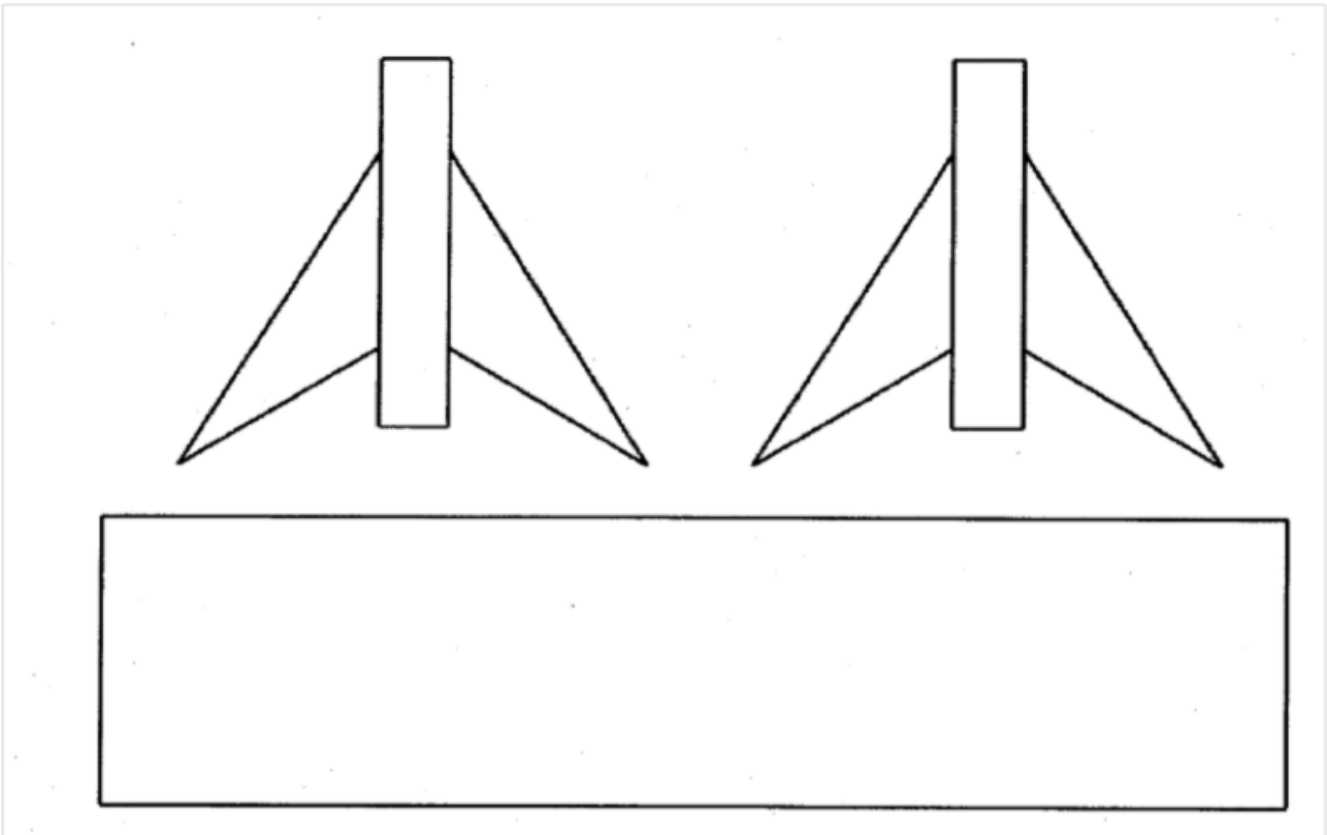




(A) Student Worksheet. Soda-straw rocket template (2 of 2)

Soda Straw Rocket Template – Cut these three pieces out carefully.

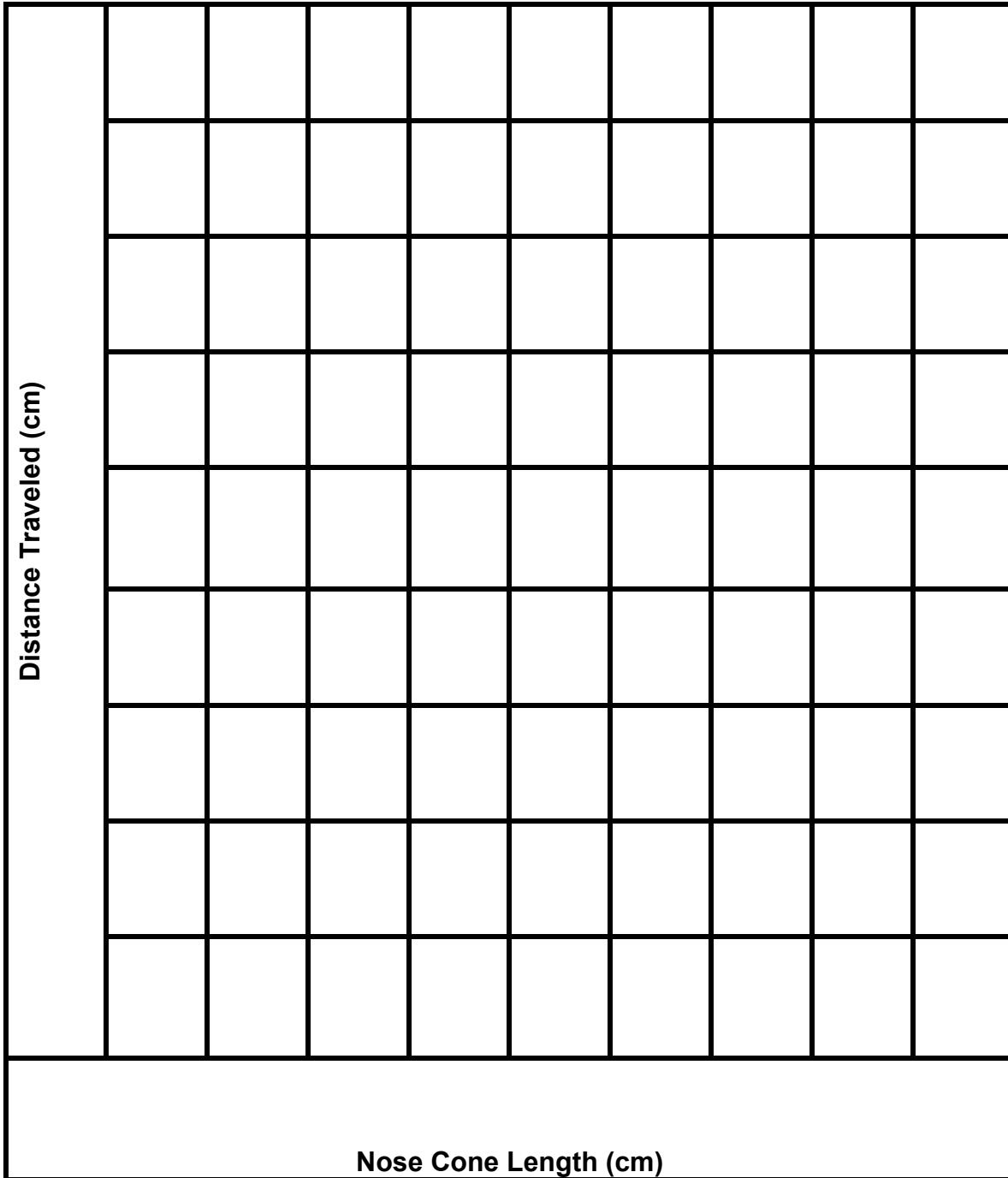


**(B) Student Worksheet. Soda-straw rocket data log**

Length of Nose Cone	Trial #1	Trial #2	Trial #3	Trial #4	Trial #5	Notes
Control						
Distance Traveled (in cm)						



(C) Student Worksheet. Soda-straw data analysis graph





(D) Student Worksheet. Soda-straw Rocket Analysis (1 of 2)

Your Research Question:

How will changes to the rockets' nose cone length affect the distance the rocket will travel?

1. Your Prediction (Your Hypothesis):

2. Your Conclusion:

A. What Nose Cone Lengths did your team use? _____, _____, _____, _____.

B. What happened to the Distance Traveled when you had a longer Nose Cone?

C. What happened to the Distance Traveled when you had a shorter Nose Cone?

D. Why do you think these results happened?



(D) Student Worksheet. Soda-straw Rocket Analysis (2 of 2)

E. Did you have any problems during the investigation that might have changed the Distance Traveled?

F. Was your prediction supported? _____

G. If yes, what evidence do you have your prediction was supported? If no, why do you think it wasn't supported?

H. Other than nose cone length, give 3 examples of variables that might be changing the Distance Traveled.

1. _____
2. _____
3. _____

I. Pick one of the examples and give a hypothesis (a suggested explanation that predicts a particular outcome, based on a model or theory) as to why this variable might change the Distance Traveled of the rocket.
