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## Flying Paper Airplanes STEM Activity

Part 1: Control Trial

Fly your paper airplane a total of 8 times. Record the results. \*\*You must use the SAME airplane for this entire activity!\*\*

Control Trials (airplane without modifications)	
Trials	Fly Length (in inches)
Trial #I	
Trial #2	
Trial #3	
Trial #4	
Trial #5	
Trial #6	
Trial #7	
Trial #8	

## Part 2: Experimental Trial

Your group will decide on a way to modify (change) the airplane to determine whether or not this modification (change) will make the airplane fly a longer or shorter distance. Sample modifications your group can make length of the nose, weight of the nose, weight of the wings, weight of the entre plane, etc. \*\*You may only make ONE modification !!\*\*

What modification will your group make? \_\_\_\_\_

Do you predict this modification will make your airplane fly a longer or shorter distance?

Part 2: Continued....

Include details about the modifications your group is making below.

a. What materials are you using to modify your airplane (ex. tape, paperclips, scissors)? \_\_\_\_\_

b. How many or how much of the materials will you use to modify (be specific)? \_\_\_\_\_

- c. To Which part of the airplane (wings, nose, entire plane)? \_\_\_\_\_
- d. Fly your airplane with the new modification 8 times. \*\*You can NOT make more changes to the airplane\*\*

Control Trials (airplane with modifications)	
Trials	Fly Length (in inches)
Trial #I	
Trial #2	
Trial #3	
Trial #4	
Trial #5	
Trial #6	
Trial #7	
Trial #8	

- e. Did your airplane fly a longer or shorter distance after you modified your airplane? \_\_\_\_\_
- f. Why do you think your airplane flew longer or shorter?