Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Flight Central

Thinking about engineering and design – creating a paper plane that can fly as far as possible is your mission

Below is a link about a giant paper plane

<http://www.news.com.au/technology/sci-tech/giant-paper-plane-soars-across-us-desert/story-fn5fsgyc-1226308670641>

Science Mission : CreateTWO paper planes exactly the same and change **one** factor

To see which of your group’s paper plane will fly the longest distance in m (metres)

Factors which might effect the flight of a paper plane

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Aim: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prediction: I think \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Hypothesis:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Independent variable ( factors our group changes/ manipulates):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Dependent variable (factor our group measured) : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Controlled variables (the factors our group will keep the same):

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Research :----Design ideas for our paper plane model

Look up ideas for plane designs and sketch them below (at least 5 different designs… select your best design)

Equipment

List all the equipment you will need

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Method:

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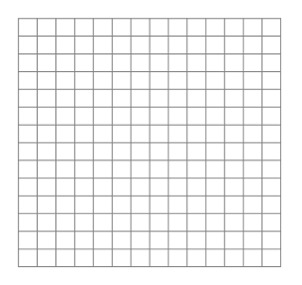
Record results in table.

Graph results – use a \_\_\_\_\_\_\_\_\_\_ graph

Results:

Draw a table to fill in all the data you observe

Graph your results here (remember a title, label axis, use pencil, use ruler, regular units )



Read from your graph

What was the longest distance your plane could measure? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Conclusion:

What do your results show about the factor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that your group changed?

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Was your prediction supported by your results?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Evaluation

What could you do in the experiment to make it more accurate?

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What other tests could you do to improve your findings?

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Find a real plane designs and draw the below explaining how it is able to fly