Teaching the Scientific Method with Paper Rockets

Name: _____

Date: _____

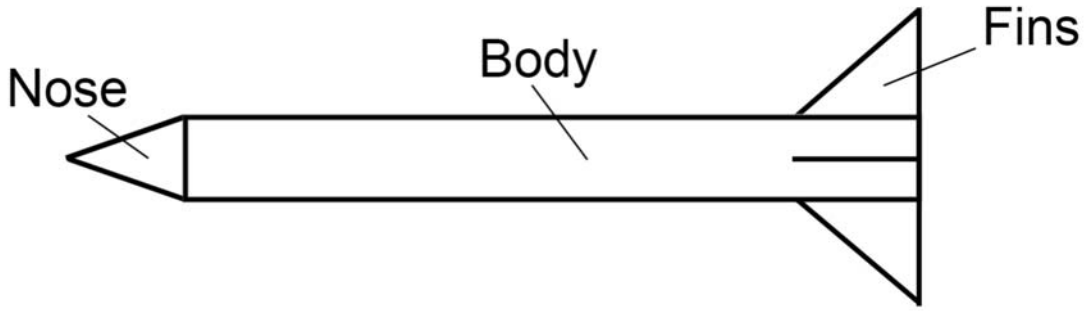
Student worksheet

Directions: Fill in the sections below as you work through the scientific method using paper rockets.

IDEA STARTERS

- Why, how, when, where, what, which
- Speed, distance, height, time
- Length, diameter (width), shape, quantity (number of)
- Rocket parts: fins, nose, body

Rocket parts:



1. Write down at least three questions you have about rockets. If you are stuck, try using some of the words or ideas from the Idea Starters box.

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2. Circle the questions you can try to answer with paper rockets. If you do not have any, think of another question. Pick one question you will work on for your project.

3. Research rockets using books or the internet. Write down at least two things you learned that may help answer your question.

4. Identify the variables you will explore:

Independent Variable (what I change)	**Dependent Variable** (what I measure/observe)	**Controlled Variables** (what I need to keep the same)

5. A **hypothesis** is a guess based on everything you know so far. Make a hypothesis about what will happen to your dependent variable if you change your independent variable. Explain why you think this will happen.

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6. Write down the steps you will follow to do your experiment. Make sure your list of steps includes all the parts from the checklist on the right.

	Experiment checklist ☐ Materials you need ☐ Step-by-step instructions ☐ How you will change the independent variable ☐ How you will measure the dependent variable ☐ Number of trials (repeats of the experiment)

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7. Fill in the data table below with your variables.

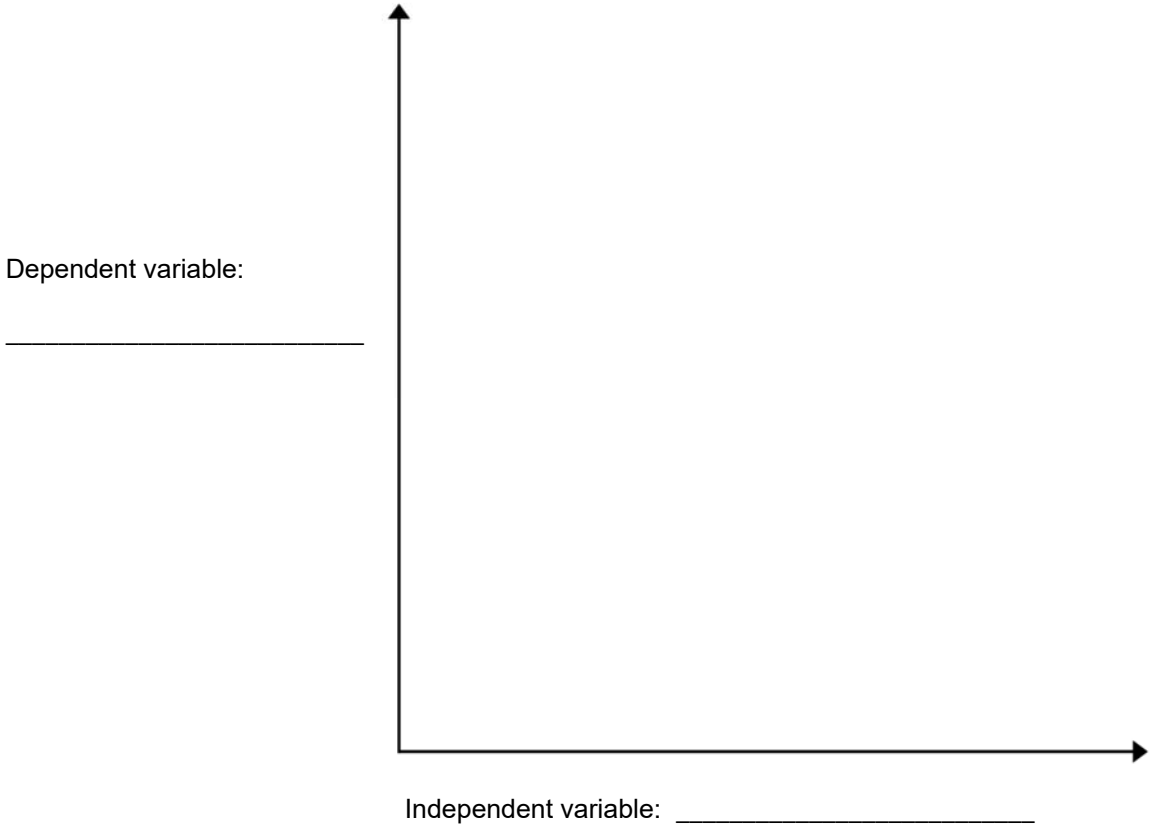
	Dependent variable: _____			
Independent variable: _____	**Trial 1**	**Trial 2**	**Trial 3**	**Average**

8. Do your experiment and fill in your data table.

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9. Make a graph of the data from your table. Make sure you fill in the labels on the graph.



10. Do your results support your hypothesis? Explain why or why not.