5 th G	rade Scientist			
	Choosing and Researching	ng My Pı	roject	
Invest	tigation Question:			
Reaso	on we chose this question:			
	er the following to validate whether your quest nswered with any "NO's", rethink your question			
	nses to the questions below.)	v		
0	Is there a specific answer?	YES	NO	
0	Do I know how to find the answer?	YES	NO	
0	Do I have enough time?	YES	NO	
0	Can I get the materials we need?	YES	NO	
0	Is it safe?	YES	NO	
0	Is it ethical? (Good purpose)		YES	NO
0	Is my question related to States of Matter?	YES	NO	
0	Is it an original idea?		YES	NO
0	Am I truly interested in this question?	YES	NO	
My P	rediction: (What I PREDICT will happen <u>and</u>	WHY I th	ink this	will happen)
List tl	ne controlled variables for the investigation:			
a a a a a a a a a a a a a a a a a a a				
	List the experimental or manipulat	ed variable	for the	investigation:

>	Step 1:
>	Step 2:
<u> </u>	Step 3:
<u> </u>	Step 4:
	Step 5:
	Step 6:
<u> </u>	Step 7:
<u> </u>	Step 8:
>	Step 9:
<u> </u>	Step 10:
	Have another scientist review your procedure before you continue your investigation. Ready to Go! Excellent detail. We can understand and follow these steps Almost Ready! Add more detail to Per 5 th grade scientist's signature
OP	

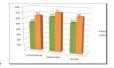


Materials Needed:

Submit a list of requested materials that you need to borrow from the teacher. BE SPECIFIC (include measurement tools, quantities, size, color, etc... when requesting materials for your investigation). (Ex. 4 T. sugar; Three 11" x 18" sheets of orange construction paper....).

NOTE: You will be responsible for providing unavailable materials. If you are not able to provide the other materials due to cost and/or availability you should reconsider your question and investigation.

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Gather Quantitative Data

- > Collect and record measureable data on the following lined pages.
- > Create graphs or tables as needed to display your data in an easy-to-read format.
- > Use metric measurements whenever possible.
- Consider the following questions:
 - What will you count or measure in your experiment?
 - How will you collect and present your data and scientific observations? (Ex. chart, journal, graph, etc...)
 - What type of graph would work best to display your data? (bar, line, pie?)

Gather Qualitative Data



> Take photos, draw pictures, and /or write detailed descriptions of your results.



It's time to Conduct Your Investigation

*	What	do	vou	notice	about	vour	data
•	, ,	•	,,			,, 0 0 = 1	

- **❖** If you conducted multiple trials, were the results the same or different? How can this be explained?
- **Are there any patterns in the data?**
- **Explain** what your data suggests.



 \succ Conduct additional research to learn more about your topic using at LEAST $\underline{2}$ of the following: books, magazines, and/or websites. Record research below.

1) Title or URL address	Source/Author	Page #	
Important Information from s	ource:		
2) Title or URL address	Source/Author	Page #	
Important Information from t	he source:		



- > Come to a conclusion or a reasonable explanation based on your data. Refer back to your hypothesis. Be sure to include your *Opinion*, *Evidence*, and *Scientific Reasoning*.
- > Write OR type your responses using complete sentences.
- > Consider: What did you learn? Was your hypothesis correct? Why or why not?

Scientific Opinion or Claim Based Upon Evidence:	
Evidence:	
Scientific Reasoning to Support Your Claim:	