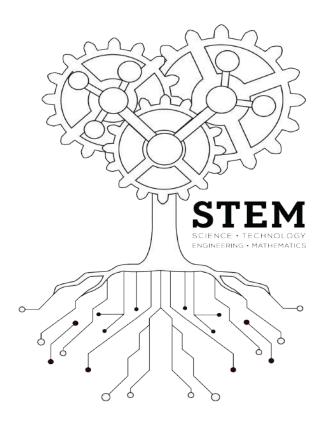


Elementary STEM Fair

Science, Technology, Engineering, and Mathematics

Providing an opportunity for students to utilize science knowledge and skills as scientists do in the real world



Research Plan and Investigation Report Forms

Student Name:		 	
Teacher:	 	 	
School:			

Part 1: Designing the Experiment

What I am wondering about (my	beginning question):
Lawa wan danin a	
I am wondering	
Draw a picture of your problem question you are trying to answ	

Part A:	Things I could change o	r vary:	
Part B: T	hings I could measure o	r obser	ve:

Identifying Variables

I will change:

I will measure or observe:

Place sticky note from Part A here

Place sticky note from Part B here

I will not change (I will keep these the same so my test is fair):

Place sticky note from Part A here

Place sticky note from Part A here

Place sticky note from Part A here

I will not measure or observe:

Place sticky note from Part B here

Place sticky note from Part B here

Place sticky note from Part B here

Asking a Testable Question (Refining my beginning Wondering)

When I change	change	, the	will
I will be	e measuring and observing	g	
	What I will change	What I will measur observe	e or
	do you already know abou eady know that	ut this problem or questio	n?
	·		

Asking a Testable Question (Refining my beginning Wondering)

Predictions

(Note: List 3 possible outcomes: Increase, Decrease, and No Affect.)

I predict that
My Question Write the question that you are trying to answer.
Write the question that you are trying to answer.
Write the question that you are trying to answer.

Research

List the information you collected during your research:
Sources:
Sources.
Books:
Internet:
People:
- Ι COρίc.

Hypothesis

Cause and Effect

What do you think will happen or how will you solve your problem?

What do you think will happen o	Thow will you solve your problem
If I	
11 1	
	,
then	
because	
Draw a picture	
Cause	Effect

Materials List

ltem	How many do I need?	How much does each item cost?	What is the sum for items?

Picture of item	How did I find the total cost for the items?

Procedures

It is very important that the steps in your plan are very detailed so other people can understand what you did.

Scientists
Keep records
Compare observations
Repeat investigations

List the steps you followed in your investigation	Pictures of steps

I will conduct _____trials. I will measure ______. (ex: height) I will change ______. (ex: amount of light) How I will record the data (for example: table, chart, picture): 5 4 What I'm measuring 3 2 1

What I changed

		What I'm measuring				
		What I'n				
What I cha	ngod		V	/l + 1 - l	ngod	
VVIIat i ciia	ngeu		V	Vhat I cha	ngeu	
What i cha	ingeu		V	vnaticna	nged	
Vilaticia	ingeu .		V	vnaticna	nged	
		n measuring	V	vnaticna	nged	
		What I'm measuring		vnaticna	nged	
		What I'm measuring		vnaticna	nged	

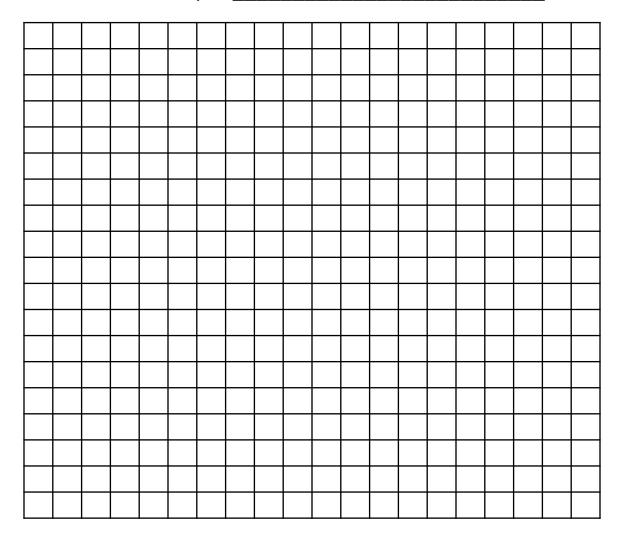
What I changed

What I changed

Data Collection											
What I changed		Trials									
	1	2	3	4	5	6	7	8	9	10	
	·		Dat	ta Co	llecti	ion				!	

			Dat	ta Co	llecti	ion					
What I changed		Trials									
	1	2	3	4	5	6	7	8	9	10	

Title of Graph: _____



When I changed ______, what happened to _____?

What I changed (independent variable)

What I measured or observed (dependent variable)

Results/Explanation

Summarize what you discovered from this experiment. Include:

Patterns	I notice in my	graph are		
From my	investigation	I learned		
This inve	stigation can h	nelp us in re	eal life by	