

**ACWORTH
ELEMENTARY**

SCIENCE FAIR INFORMATION

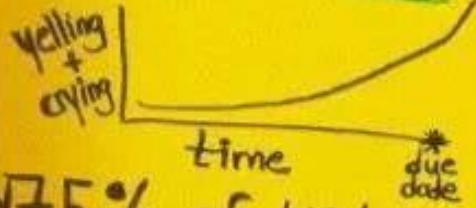
2017-2018

How Much Turmoil Does the Science Project Cause Families?

Materials

- At least 1 Kid
- At least 1 grudging parent
- Half-baked idea of very dubious merit
- Procrastination

Results



- ✓ 75% of kids cry
- ✓ 90% of parents yell
- ✓ An average of 15 hrs. of family time ~~is~~ sacrificed

Findings

Everyone HATES the science fair

by Susan Messia

LET'S
TAKE
THE
FAMILY
STRESS
AWAY!!

SCIENCE PROJECT

DUE DATES

	Due Date:	Y / N
Possible Science Fair Topics	12-7-17	
Testable Question & Hypothesis	12-12-17	
Research Notes & Source Log	12-20-17	
Materials List	1-8-18	
Project Procedures	1-10-18	
Data Page & Graph Template	1-16-18	
Conclusion	1-18-18	

**DUE DATES
HAVE BEEN
SET AND ARE
THE SAME
FOR ALL
STUDENTS
IN 4TH & 5TH
GRADES.**

Classroom teachers will check off as each component is completed.

The dates are spaced out to offer the students ample time to complete. This will also reduce procrastination and STRESS!!

POSSIBLE SCIENCE FAIR TOPICS

List your possible science fair topics, including notes and resources.

Due Date:

Teacher Signature:

1.



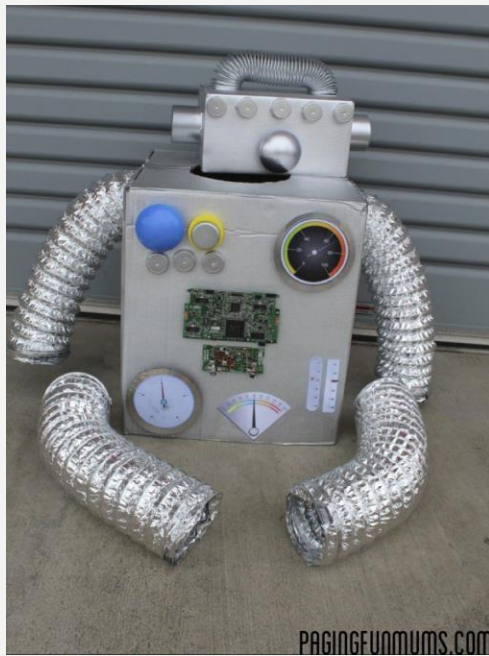
NOPE

WHAT MAKES A GREAT SCIENCE FAIR TOPIC?

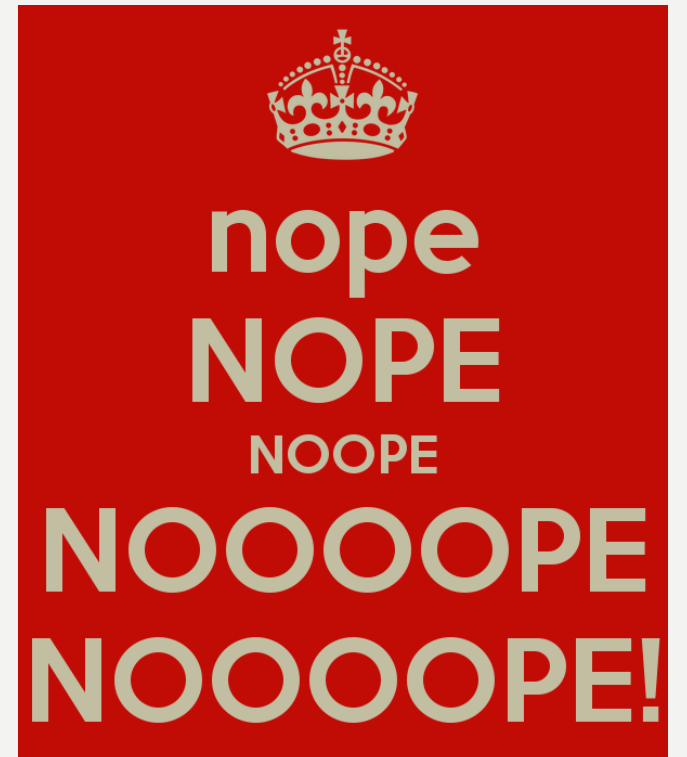
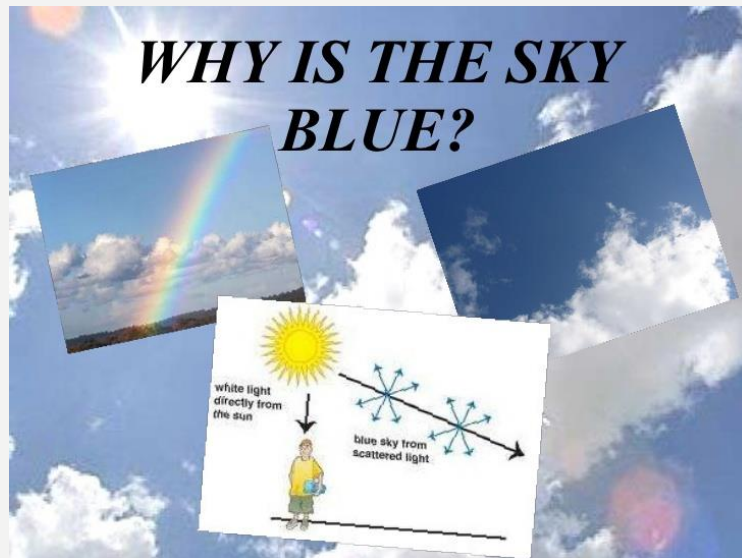
Students must come up with a question that can be answered by conducting a test or an experiment.

Models, demonstrations, OR research papers are NOT appropriate for the science fair.

WHY?



Could these be Science Fair Projects?



QUESTIONS YOU CAN TEST....

1. What type of liquid will cause marshmallows to dissolve the fastest?
2. Does the amount of water produce taller lima bean plants?
3. Does the amount of glue have an effect on the stretchability of slime?
4. Which brand of batteries lasts the longest?
5. Does the amount of salt effect how a raw egg floats in water?
6. Which brand of microwave popcorn has the fewest unpopped kernels?

When conducting the experiment, only one change can be made. This is called the variable.

Example:

What type of liquid will cause marshmallows to dissolve the fastest?

- Must use same amount of liquid each time
- Must use same type and size of marshmallows each time
- Only change made is the type of liquid – the **variable**

Example:

Does the amount of salt have an effect on how a raw egg floats in water?

- Must use the same amount and temperature of water each time
- Must use the same size of raw egg each time
- Only change made is the amount of salt – the **variable**

RESEARCH NOTES & SOURCE LOG

Record all of your research notes and sources used. Students should cite the research and summarize in their own words to receive "Evident and Complete" and have more than three sources for a "Superior" rating from the judges. Clarification statement: copying and pasting from a source
Will receive an "Evident but Incomplete" rating from the judges.

Due Date:

Teacher Signature:

#1 SOURCE:

Book _____ Magazine _____ Website _____ Person _____

NOTES:

**I HAVE MY
QUESTION &
HYPOTHESIS...**

NOW WHAT?

It is time to
research your
topic to learn
more about it.

MATERIALS NEEDED

Provide a *DETAILED* list of materials that you will need. Include specific quantities of each item. You need enough materials to complete at least 3 trials of your experiment.

Due Date:

Teacher Signature:

Materials:	Quantity:	Have or Need?
1.		
2.		
3.		
4.		

You must include measurable quantities of each item used.

**TIME TO
GATHER
YOUR
MATERIALS!**

Your list of materials should be very detailed. You will need enough supplies to complete at least 3 trials of your experiment.

PROJECT PROCEDURES

List each step you take to complete your project. Be **SPECIFIC** enough so that your project could be *replicated* by another person.

Due Date:

Teacher Signature:

STEP 1:

STEP 2:

STEP 3:

STEP 4:

**NOW IT IS
TIME TO BEGIN
YOUR
EXPERIMENT!!**

It is important that you write down the procedures of your experiment **EXACTLY** as you do them.

You should include enough detail so that your project could be replicated by another person.

DATA INFORMATION / GRAPH TEMPLATE

Use the blank template to sketch your finding (bar or line graph). Make sure your data shows evidence of multiple trials of your experiment. At least three trials must have been completed to receive a "Superior" rating from the judges. You should provide evidence of a thorough experiment through photos, diagrams, or data tables.

Due Date:

Teacher Signature:

Everyone LOVES to see pictures of hardworking kids! You can add pictures of your experiment to the project board also.

HOW TO SHOW YOUR RESULTS...

Your findings should be displayed in some type of graph or chart. This can be done by hand, using the template in the packet, or on-line.

Totally up to you!!

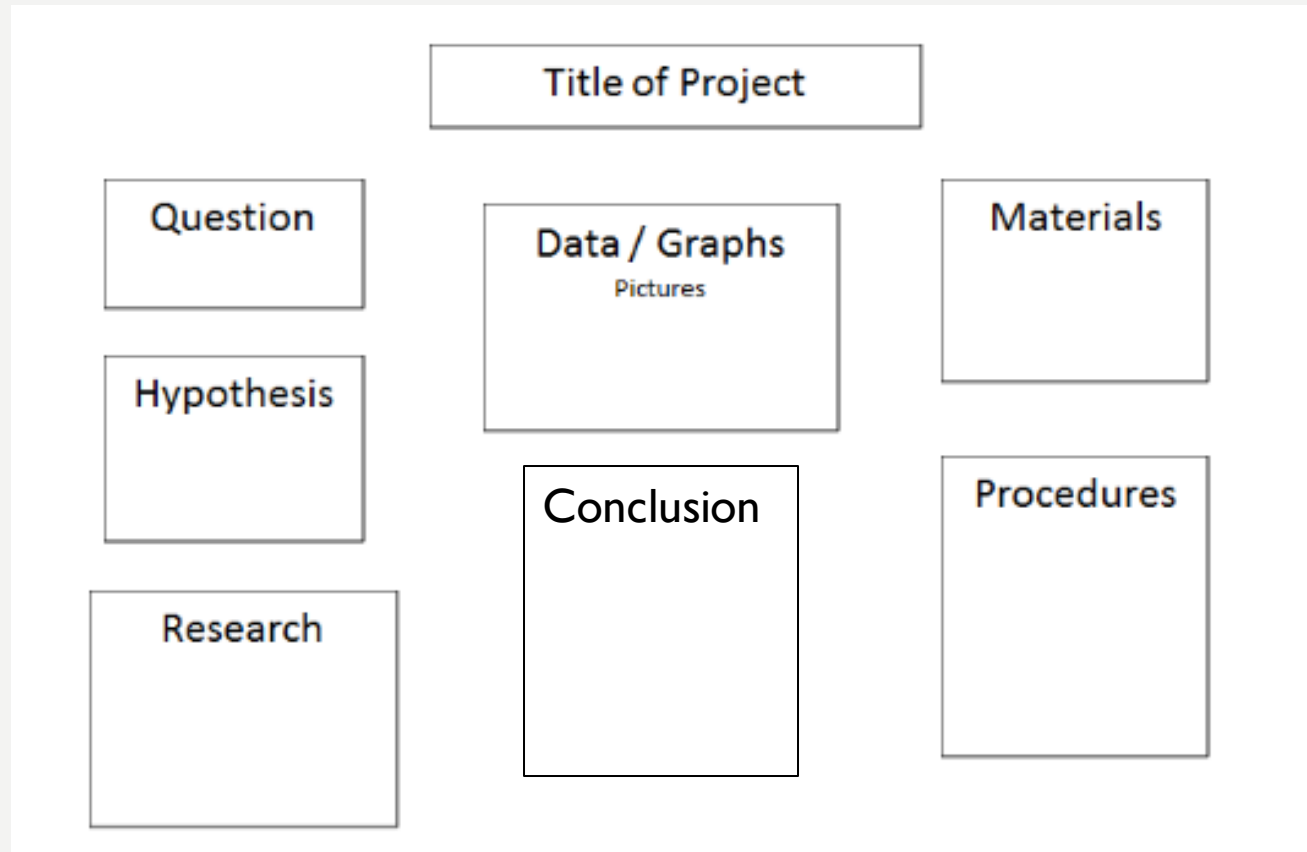
CONCLUSION....

You have completed at least 3 trials of your experiment and are ready to write about what happened.

- Was your hypothesis correct or incorrect?
- Explain the evidence that proved this.
- What were the results to your experiment? Explain each trial that you preformed.

<h2>CONCLUSION</h2> <p>Your conclusion should be supported with experimental evidence. The data presented should be relevant to the testable question and used to evaluate the hypothesis and answer the question.</p>	
Due Date:	Teacher Signature:
<u>RESULTS:</u>	
Was your hypothesis correct or incorrect?	

HOW DO I ORGANIZE MY PROJECT BOARD?



Your project does not have to look exactly like this, but all of these components must be displayed on your board.