It's Time for the Russell Science Fair-3rd Quarter-Take Home Science Project

Projects and Videos are Due: February 23-24.

Start working on the project early because you will need to perform research, and this will take some time. You will also need to work on a creative trifold board and create your Padlet video to tell the judges all about the project. Grade-level winners will go on to the Cobb County Science Fair!!!

Steps for doing your science fair project.

1. Choose a topic. There is a list of some things you could do. Ask for help if you are still not sure of a topic.

2. Think of a question to ask about the topic.

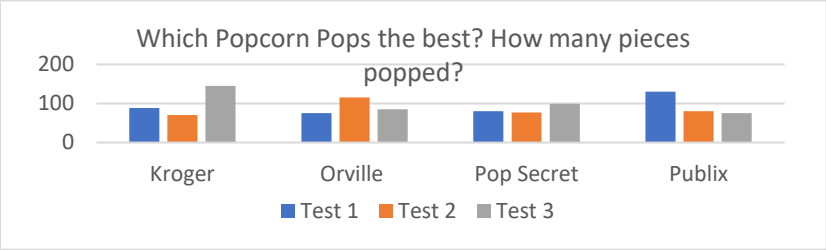
3. Make a hypothesis. A hypothesis what you think will happen.

4. Write down all the supplies you use for the project and each step you did from start to finish.

5. Do your research. Look up some information connected to your topic. You will have to have some information on the topic. Example: If your topic is: Which popcorn brand pops the best, look up who invented popcorn, how much popcorn is sold each year and even how microwave popcorn is packaged and sold.

6. Test the experiment and write down the procedures of the experiment (steps you did to complete the experiment). List each step you did and the data results. For example: If you are testing which brand of microwave popcorn pops the best, write what you did put the popcorn1st, 2nd, 3rd…You will also need to pop more than 2 brands of popcorn. You will need to count how many pieces popped and how many seeds were left. Make sure to write down the data from the experiment.

7. Create a data chart to show what happened when you completed the tests.



8. Write your conclusion. Was your hypothesis right or wrong?

9. Write down the results: What other information did you find out? How could the experiment be changed?

10. Make your trifold board (examples included in this packet).

11. Create your Padlet video to talk about your project and the results.

12. Bring your trifold board to school by _____.

Your science Fair project should be about something that interest you and something you can test. Here are some Science Fair ideas. You can use one of these or find your own idea. Students are NOT allowed to experiment with mold or bacteria.

Padlet Links

K & 1st Grade: https://padlet.com/alexislauderdale/Kand1stGradeScienceFair

2nd & 3rd Grade: https://padlet.com/alexislauderdale/2nd3rdGradeScienceFair

4th & 5th Grade: https://padlet.com/alexislauderdale/4thand5thGradeScienceFair

Science Fair Ideas:

Can a car be powered by only air? Balloon powered car?
Can you grow a plant without soil?
Who has the better memory boys or girls?
Does age affect memory?
What makes pinecones open and close?
What happens when you leave gummy bears in water?
Which plants grow the best?
What makes ice melt the fastest?
What kind of cookie will float in milk?
What dissolves the color on skittles the fastest?
What is the most random number?
Who reacts the most to sour foods boys or girls?
Which brand of bubble gum will blow the largest bubbles?
Which nail polish has the best quality?
Which brand of popcorn pops the best?

Do white candles burn faster than colored candles?
Do plants grow better in soil or water?
Can plants get nourishment from soda, juice or milk instead of water?
Do colored light bulbs affect eyesight?
What is the fastest way to cool a can of soda?
Which design of paper airplane flies the furthest?
Which soil grows plants the quickest?
Which paper towel brand absorbs the most water?
If you practice something every day, will you get better at it?
What causes the most static on a balloon?
Do video games affect your brain?
Why does fruit turn brown?
Are fingerprints inherited?
Can a solar oven really cook food?
What bubble recipe makes the best bubbles?

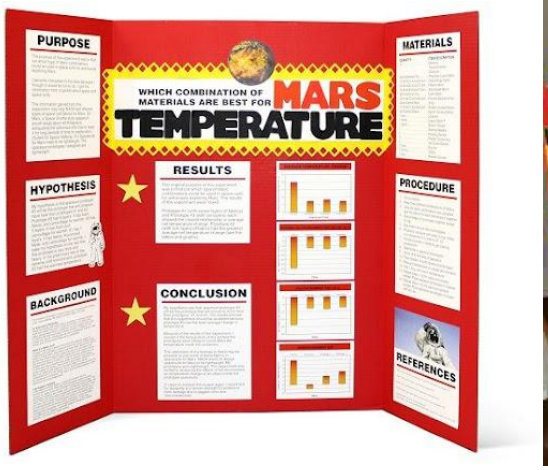
Also check out these websites

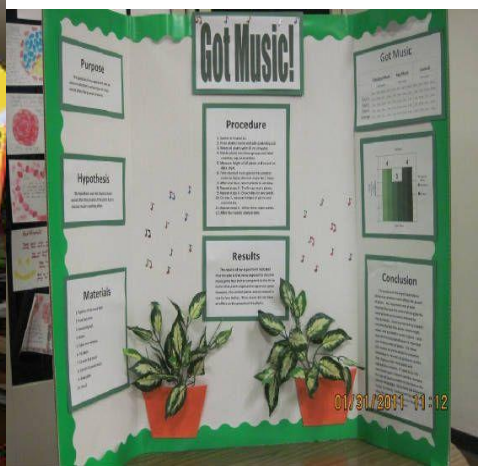
- **http://www.education.com/science-fair/**

- **http://www.sciencebuddies.org/science-fair-projects/project_ideas.shtml**

This is what will go on your trifold board:
Add pictures or drawings and all the information from your research. Be creative with this part of the project. Add pictures and don't forget your data.

Hypothesis	Project Name Your Name	Data
Materials & Procedure	Question	Conclusion





Name _____ Teacher _____ Science Fair

Question (what are you trying to find out?): _____

_____

Hypothesis (what do you think will happen): I think _____

_____

Plan and conduct an experiment:

Material (What things did you use for the experiment?)

Procedures (steps you did for the experiment)

1.

2.

Research- Look for information about your question

Source (name of the book or the website where you got the information):

_____

Information: _____

_____

Record your data:

Draw a conclusion:

What are the results:

Science Fair Data Sheet

Example: Who has a better memory boys or girls?

Information	Date	Time allowed to look at items	Data Collected
Girl	1-6-2025	2 minutes	Remembered 8 objects
Boy	1-6-2025	2 minutes	Remembered 10 objects
Boy	1-7-2025	2 minutes	Remembered 10 objects
Girl	1-7-2025	2 minutes	Remembered 9 objects
Girl	1-8-2025	2 minutes	Remembered 12 objects
Boy	1-8-2025	2 minutes	Remembered 7 objects

Fill in the chart with the information for your data collection.

Information	Date		Data Collected

Science Fair Research- You will need to do some research about the topic. For example: If your project is on memory. Research facts about the memory of humans or if it is on popcorn. How is popcorn made? Use your topic question to guide your research.

Information
Source: Where did you find the information
Information:
Source: Where did you find the information:
Information:
Source: Where did you find the information:

Russell Science Fair Rubric	**Completed: 10 points,** **Almost completed: 7 points** **Started but not complete: 5 points**
Choose a topic:	
Have a question to go with the topic:	
Have a hypothesis:	
Made a list of the supplies:	
Research is complete and written down:	
Wrote down the procedures and tested the experiment:	
Data chart completed:	
Conclusion and Results and written down and clear:	
Trifold Board is complete with all the needed sections:	
Recorded the Padlet video	
Total:	