November 3, 2023

Dear Parents,

This year's Elementary Science Fair is scheduled for February 22, 2024. All 4th grade projects will need to be turned into their homeroom teacher by February 20th to prepare for judging. Science fairs are a good learning experience for our children. This year 4th graders will have the opportunity to complete a project that uses the scientific method.

Please review the attached information with your child. Some of the initial steps will be completed with your homeroom teacher during Science class. The remainder of the project will be completed at home with parent support.

Please note, especially if you have students in other grades, that the 4th grade timeline is slightly different than others this year.

Please feel at liberty to help your child with ideas, typing, and backboard construction, but avoid helping your child complete the actual project. This is a wonderful hands-on learning experience that you can "coach" your child through. The "appearance" of the project is far less important than the "learning" that is gleaned from it. Thank you for your helpfulness!

Respectfully,

Emily Orman

Emily Orman
Elementary Principal

Tabitha Cardwell

Tabitha Cardwell
STEM teacher

attachment

Wesleyan Christian Academy
Science Fair Information
2023-24
4th Grade

Science Fair: The Science Fair for 4th graders will be one of student-made science projects that reflect the scientific method. Teachers will assistst students with the completion of steps 2 & 3 at school; however the bulk of the work will need to be completed at home with parent support. Projects will be brought to school for judging and exhibition.

Project Due: Tuesday, February 20, 2024

Date of Fair: Thursday, February 22, 2024

Participants and Awards: All Wesleyan students who are in 4th grade have the option of participating in this science fair. The project will be judged in its own competition, and the classroom teacher will give grades for steps 1-3 of the project.

Special 4th grade ribbons will be presented as indicated below per the ACSI criteria:

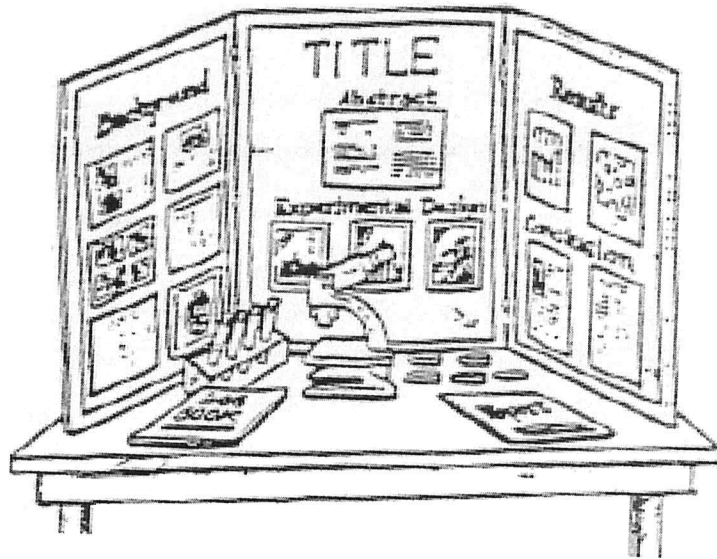| Ribbon	Judging Score
Blue — Superior	44-50
Red — Excellent	30-43
White — Good	16-29

Trophies will be presented to the top three scoring projects. All students who participate will also receive a special STEM experience.

Timeline:

Due Date		Section of Project
12/1	Step 1	Project Approved (Required)
12/8	Step 2	Hypothesis Approved (Required)
1/12	Step 3	Biblical Application Due (Required)
1/19	Step 4	Research and report completed
2/9	Step 5	Experiment and documentation complete: method, results, conclusion
2/14	Step 6	Abstract complete
2/20	Step 7	Entire project, including backboard complete

Guidelines:

1. Students should do nearly all of the project (90%). Parents or other adults should feel free to help the student with ideas, typing, backboard construction, and suggestions for change. However, **the project itself is to be the product of the student's work.**

2. Each project should include a free standing display board. The exhibit must be presented on a display board 4 feet wide, 2 feet deep, and 4 feet high which can be purchased at an office supply store, Amazon, Dollar Tree, or Walmart.

SAMPLE DISPLAY DIAGRAM

3. The following items need to be on display on your board: Title, Hypothesis, Method of Testing, Results, Conclusion, and Biblical Application. The following items may be displayed on the table, on the display board or included in your folder: Log Sheets, Research Details and Sources, Photos, Abstract, and anything else you think is important to your project.

4. Each exhibit must include a Scripture verse or biblical application that relates to the project. A card (3x5 or 4x6) may be used to make this application.

5. Each exhibit must include research of the chosen topic. Students should type out their 10 research facts and include it in their log book or on their presentation board. We suggest that your research be typed, but a neatly printed report is acceptable. Please also include a list of the three sources used.

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6. Each project must include a log sheet(s) containing the details of your experiment. Note the suggested format included in the packet.

7. The student's name must be printed on the back of the board. The student's name and entry number will be affixed to the project during the checking-in process.

8. No live animals, insects or bacteria cultures are to be used in the exhibit.

9. The student may be asked questions about their project and should be prepared to give a clear verbal explanation of their exhibit (approximately 3-5 minutes).

Final Judging Criteria:	<u>Visual Display</u> The display board is neat and attractive and includes things such as title, pictures, articles, or drawings to tell the project's story.	10 Points
	<u>Knowledge</u> The information provided by the project and student shows an understanding of the principles behind the project.	15 Points
	<u>Verbal Explanation</u> The student can explain the project in knowledgeable terms.	10 Points
	<u>Reserach</u> The student's research facts must be typed neatly and displayed in in the folder.	10 Points
	<u>Biblical Application</u> A biblical application is related to the project, either by a verse directly or by analogy.	5 Points
	Total	50 Points

Judging:	Judging is planned for the morning of February 22.
Electric/ Gas/Water:	Exhibits requiring electricity will need to be equipped with a three-prong plug. Extension cords and duct tape (to tape the cord to the floor) must be provided by the exhibitor. No gas or water outlets will be provided.

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Safety: Dangerous or unsafe exhibits will not be permitted. Such projects will be removed from the fair.

Viewing: Students will view the projects during the afternoon of February 22.

Important Parental Roles:

1. Please help your child decide on a specific project to complete. This is sometimes the biggest obstacle to overcome. The teacher will approve the project idea, provide guidance in the classroom and help with ideas if needed.

2. Please keep your child accountable in completing certain phases of his/her project. He/she will need your encouragement to complete the phases of the project within the time table provided (see attached timeline). Note: Steps 1-3 are required whether your child chooses to complete his or her project or not.

3. Please work with your child in completing his/her project, but avoid the temptation of doing the project for your child. This can be a most meaningful hands-on learning experience for children.

4. You are welcome to help your child with typing, backboard construction, and suggested changes. However, the project itself should be 90% the product of your child.

5. If you are unfamiliar with our science fair or desire to see what some others have done, pictures from past fairs are available in our Elementary office.

Wesleyan Christian Academy
2023-2024
4th Grade Science Fair
Student Packet

Science Fair Information
Timeline

Due Date		Section of Project
12/1	Step 1	Project Approved (Required)
12/8	Step 2	Hypothesis Approved (Required)
1/12	Step 3	Biblical Application Due (Required)
1/19	Step 4	Research and report completed
2/9	Step 5	Experiment and documentation complete: method, results, conclusion
2/14	Step 6	Abstract complete
2/20	Step 7	Entire project, including backboard complete

Science Fair Information
Project Approval Form

Step 1

Due 12/1

Name/#_____

Date_____

I would like to do my project on: _____

_____

_____

Upon your approval, I will try to develop a hypothesis and a way to test this hypothesis.

_____   _____

       student   parent confirm

_____approved   _____unapproved

Reason if unapproved:

       _____The scientific method of testing a hypothesis for this will be too difficult

       _____Too many such projects approved

       _____Not appropriate for grade level

       _____Other _____

_____
Teacher Signature

Science Fair Information
Science Fair Hypothesis

Step 2

Due 12/8

Name/# _____

Date _____

My hypothesis for my project is _____

_____

_____

_____

_____

The steps I will take to test my hypothesis are:

1._____

2._____

3._____

4._____

5._____

6._____

_____   _____
student   parent confirm

_____   _____
teacher   approval date

Science Fair Information
Biblical Application Form

Step 3

Due 1/12

Name/#_____

Date_____

Please provide a Biblical reference that is relevant to your project.

_____

_____

_____

_____

_____

_____

_____

_____

Science Fair Information
Science Fair Research

Step 4

Due 1/19

Name/#_____

Date_____

Research materials used (books and websites):

1._____

2._____

3._____

_____

_____   _____
          student   parent confirm

Science Fair Information
Science Fair Research

Step 4 Cont.

Due 1/19

Name/#_____

Date_____

My Research Facts:

1._____

_____

2._____

_____

3._____

_____

4. _____

_____

5. _____

_____

Science Fair Information
Science Fair Research

Step 4 Cont.

Due 1/19

Name/#_____

Date_____

My Research Facts:

6._____

_____

7._____

_____

8._____

_____

9._____

_____

10._____

_____

_____   _____
          student   parent confirm

Science Fair Information
Science Fair Experiment

Step 5

Due 2/9

Name/#_____

Date_____

I have started the experiments and/or testing of my hypothesis. I am documenting my results in my log book. This log book should be included in my final presentation.

_____   _____

          student   parent confirm

LOG SHEET

DATE	TIME	WHAT I DID	RESULTS	IF ADULT HELPED

Science Fair Information
Science Fair Abstract

Step 6

Due 2/14

Name/#_____

Date_____

I have completed my abstract (brief, written explanation of the project) and have it ready for my project. The abstract should be included on your project board or on the table in front of your presentation.

_____   _____
            student   parent confirm

ABSTRACT

NAME _____

TITLE OF PROJECT (problem to be solved):

HYPOTHESIS:

METHOD OF TESTING HYPOTHESIS:

RESULTS:

CONCLUSION:

Science Fair Information
Project Complete

Step 7

Due 2/20

Please bring your completed project to your homeroom teacher by February 20th.