Allenwood Elementary School
14th Annual Science Fair – 2022

Date: Wednesday, April 13, 2022 Time: 6:30-7:30pm

Dear 4th and 5th grade students, parents, and guardians,

The Allenwood PTG is proud to host the 14th Annual Science Fair at Allenwood School. We are excited about the Fair because it ties in so nicely with the science curriculum the students enjoy in the classroom. We thank you for your interest in the Science Fair and for taking the time to review this packet.

Entry into the Science Fair is OPTIONAL. **All** students who participate will receive a participation ribbon and a Sundaes gift card.

Parents: Once your child decides to participate, please have them fill out the submission form at the end of this packet, submit it to your child's teacher in an envelope labeled, "Science Fair" **along with an entry fee of $15** by Monday, **MARCH 21, 2022.** The $15 entrance fee goes towards the trifold board, gift card and ribbon. The trifold board will be delivered to your child's classroom.

KEY POINTS/DATES:

- **Entry form and $15 fee are due by Monday, March 21, 2022.** PLEASE PUT INTO AN ENVELOPE CLEARLY LABELED: SCIENCE FAIR and send it to the Main Office. Please keep in mind, this deadline is firm. Proposed experiment sheets will NOT be accepted after this date as trifold boards and ribbons will be ordered. We anticipate handing out trifold boards on March 31, 2022.

- Parent/guardian & student signatures are required on the entry form at the back of this packet.

- Your child's teacher will be approving the experiment.

- **Projects boards are due into school on Monday, April 11, 2022.**

- STUDENTS MAY NOT BRING THEIR EXPERIMENTS TO SCHOOL. ONLY THE BOARDS ARE TO BE BROUGHT TO SCHOOL.

- WE STRONGLY ADVISE YOU TO READ THE RULES SECTION IN ORDER TO AVOID A PROPOSED EXPERIMENT BEING REJECTED. If you have any questions, please contact Sharon Zanette (szanette@awptg.org) Thank you!

Rules for Science Fair Projects

You must follow the rules below when designing your project. Please take the time to read this section.

Your project/experiment:

- CANNOT be something you have already done in science class.
- CANNOT be a demonstration or model of something-it must be an actual experiment completed outside of school.
- CANNOT be a survey.
- CANNOT be anything consumable—nothing involving tasting, smelling, applying substances to the skin, or eating things.
- CANNOT be based on an opinion of something—favorite colors, flavors, or how much somebody likes something are not experiments that have scientific data.
- CANNOT use science or math kits from a store.
- CANNOT use expensive or irreplaceable personal property. Do not use anything that may break easily.
- CANNOT use dangerous chemicals, matches, fire, or flames (no candles or melting things).
- CANNOT use ANIMALS.
- Your display must include all steps of the Scientific Method (See the example of a display board on page 4)

Students should choose a science investigation that involves observation or experimentation. This investigation is known as the Scientific Method - an explanation of the Scientific Method is attached.

Students must choose a question that can be answered with results from an experiment or investigation of their own design.

The question CANNOT be answered with a simple “yes” or “no. The question CANNOT be one that elicits an opinion as the answer. Examples:

Acceptable	Not acceptable
How does air pressure affect the height of a basketball bounce?	Do more people like chocolate ice cream than vanilla? (This is based on opinion.)
What is the relationship between the price of a battery and how long it powers a light bulb (or another small item)?	How to make a bridge out of popsicle sticks (This is a demonstration.)
How does the shape of an ice cube affect how quickly it melts?	Which dog food is more nutritious? (This is survey.)

Our goal is for the students to practice the Scientific Method and realize that real-world, high-tech scientists use this method all the time to discover new things. This kind of approach teaches questioning strategies and experimental design skills. Please note, there is a difference between a scientific experiment and a scientific demonstration. A scientific experiment poses a question that is not based on opinion, has a stated hypothesis, and has results that are measurable.

We encourage students to complete the experiment with only a little help from their parents.

Kids: Do not be afraid to make mistakes. Some of the world’s best discoveries happened when the experiment did not turn out as planned (Microwaves, Post-it Notes, Silly Putty). Please remember that we want you to keep it simple, do some experimentation, answer a scientific question that interests you and have fun. The experiment does not have to be elaborate, but it should be complete. Try to do as much of it as you can without help from your parents. If you can’t think of a question, please just use one of the suggestions provided or one that was talked about in your classroom. Remember that even with the same question, two projects are never the same. Have someone take pictures of you doing your experiment- it will look great on your display board! Please remember to get creative and enjoy yourself!

Question (your choice)

Hypothesis

(What do you predict will happen?)

Purpose of the Experiment

(Why did you pick this idea?)

Pictures

Title Name and Class

Experiment Procedures

(How did you set up the experiment, what steps did you follow to gather your data?)

Materials Used

Data Collected (show numbers here & multiple trials)

Results

(What happened?)

Conclusion

(What did you learn? Was your hypothesis correct?)

Pictures

Pictures

Background Information

(Anything else you want people to know about your experiment?)

Trifold Exhibit Display: Example of Board Layout (use this as a general guide)

2022 Allenwood School Science Fair Entry Form

Return this form along with the $15 entry fee to the Main Office by Monday, MARCH 21, 2022.

Science Fair Project:

Your Scientific Question:

Brief description of your project:

I have read all the rules and understand my responsibility in entering the Science Fair.

_____
Student's Signature

_____
Parent/Guardian Signature and email

Entry Fee:($**15.00)** enclosed: Cash _____ or Check_____(Check#_____)
Payable to Allenwood PTG

Teacher Approved: Y / N Teacher Initials: _____