



# RIDGE ELEMENTARY SCHOOL SCIENCE FAIR

MARCH 5-6TH, 2020



Return this **sign-up form** to your teacher or the school office by Thursday, Feb 27.

## **\*\* NEW THIS YEAR: EVENING SCIENCE FAIR \*\***

**Thursday, March 5 from 7:00-8:30 pm:** Families are invited to an Evening Science Fair.

Friday, March 6: Students will visit the Science Fair with their classes (+ volunteer parents only)

### **PARENTS: PLEASE FILL OUT**

Are you planning to attend the Evening Science Fair? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MAYBE
Parent's Name:
Parent E-mail Address: (in case of questions about project/setup)

### **STUDENTS: PLEASE FILL OUT**

Student's Name (First & Last):								
Grade & Class (e.g., 4G):								
Type of Project: <input type="checkbox"/> Individual <input type="checkbox"/> Group								
If Group Project, list all members. (Continue on the back if needed; submit one form per group.)								
<table border="1"><thead><tr><th><u>First &amp; Last Name</u></th><th><u>Grade &amp; Class</u></th></tr></thead><tbody><tr><td>•</td><td></td></tr><tr><td>•</td><td></td></tr><tr><td>•</td><td></td></tr></tbody></table>	<u>First &amp; Last Name</u>	<u>Grade &amp; Class</u>	•		•		•	
<u>First &amp; Last Name</u>	<u>Grade &amp; Class</u>							
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Title of Project:
<b>Is this an interactive project? Check one.</b>  ____ Yes, I will allow other students to touch the project or make it work. ____ No, the project is not interactive.
<b>Is this project messy or spillable?</b>  • If so, include a 3-inch deep aluminum pan & a roll of paper towels at set-up. • <b>NEW FOR 2020:</b> No volcanoes, slime or goo projects to encourage exploration of other topics.  ____ Yes, the project is messy. ____ No, the project is not messy.



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**\*\*NEW INFO FOR 2020\*\***

**Evening Science Fair for Families**

**Thursday, March 5**

**7:00-8:30 pm**

All families are invited to the Evening Science Fair to view projects and take part in additional science activities.

**Friday, March 6:** Students visit the Science Fair with their classes during the school day. (Only parent volunteers on Friday.)

**Project Setup—Cafeteria**

**Thursday, March 5**

**3:15-5:30 pm**

(To arrange a different setup time, contact Sara Wilson: saraywilson@gmail.com)

**Interactive Projects**

- Fill in the form “How to Interact With This Project” to explain to visitors what they should do. Place this form next to your project.
- Set up your project with enough supplies for Thursday evening.
- Provide **additional supplies** for Friday in a bag/box placed beneath the table and labeled with the student’s name and project title. (Please provide ample supplies so visitors may interact with the project on Thursday and all day Friday.)
- At the end of the Evening Science Fair, **set up/resupply your project** for the next day.

**Messy Projects**

- Place messy projects in a 3-inch deep aluminum pan & provide paper towels.
- Parents: Please consider volunteering to help students interact with the project.
- **No volcanoes, goo, or slime projects** this year to encourage exploration of other topics. We will have an interactive volcano at the Science Fair.

**Project Pickup—Cafeteria**

**Friday, March 6 at 3:00 pm**

Take your project home with you after school on Friday.



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## HOW TO INTERACT WITH THIS PROJECT

Fill in & display this form beside your project to explain how to interact with it.  
*(For interactive projects only)*

Name of Student (First & Last):
Grade & Class (e.g., 4G):
Project Title:

1.

2.

3.

4.

5.



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## The Ridge Science Fair Is Coming!

Dear Students & Parents,

The Ridge Science Fair will be on **Thursday, March 5 & Friday, March 6**. We encourage you to start thinking about topics now. Students may submit individual or group projects. All students who submit a project will receive a Science Fair medal!

### GETTING STARTED ON YOUR PROJECT

- List topics that interest you and then visit the Ridge library or the Ridgewood Public Library's children's department. The librarians can help you find books and more information.
- Search the Web. The attached page lists some helpful sites.

### HOW TO COMPLETE A SCIENCE PROJECT

Begin with an idea or question that interests you—this is at the core of the scientific method. Although scientists conduct research in many ways, there are several key elements: observation, questions, hypothesis, tests, analysis, and conclusion. Your project can be organized in the same way:

1. **Ask a question:** Observe the world around you and ask a question you would like to answer.  
Examples: *Why do we put salt on icy sidewalks? How does a rain puddle dry up? How does your body get energy from food? What kind of metal do magnets attract?*
2. **Form a hypothesis:** After determining your question, do some research and try to guess the answer to your question. Form a statement called the *hypothesis*.
3. **Test the hypothesis:** Gather information or perform an experiment to test your hypothesis.
4. **Analyze the results:** Describe the results of your experiment or research.  
(*This is what happened...*)
5. **Draw a conclusion:** Was your hypothesis correct?

**Also Check Out...**

**SUPER SCIENCE SATURDAY!**

**Saturday, February 29, 9 am-1:30 pm at Ridgewood High School**

Students are encouraged to attend and take part in this district-wide Science Fair at Ridgewood High School. Information at [www.supersciencesaturday.org](http://www.supersciencesaturday.org) and in Ridge eNews.

Questions or feedback? Please contact any of us:

**Tasneem Patrawala** (tasneemp\_sa@yahoo.com), **Sara Wilson** (saraywilson@gmail.com)  
**Danielle Flynn** (dbloodflynn@yahoo.com), **Shulamit Gershenson** (shulamitnyc@gmail.com)  
**Gokce Sezgin** (gokcedsezgin@gmail.com), **Hilary Wallace** (wallacenyc@optonline.net)



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## IMPORTANT TIMELINE

- **Thursday, February 27:** Sign-up forms are due to your teacher or the main office.
- **Thursday, March 5 between 3:15 pm and 5:30 pm:** Set up your project in the cafeteria.  
(Please do not arrive earlier than 3:15 pm on Thursday.)
- **Thursday, March 5 from 7:00-8:30 pm:** The Evening Science Fair will be open for families to visit.  
At the end of the Evening Science Fair, **please resupply/set up your project** for Friday's Science Fair.
- **Friday, March 6:** Students will visit the Science Fair with their classes during school.
- Please **remove your project** from the cafeteria by **3:30 pm** on Friday, March 6.

## GUIDELINES

- Space Limitation: Your project should fit on half of a 6-foot-long table.
- Written Display: Explain your project in writing on a cardboard trifold (available at CVS or an office supply store) or some other type of vertical support that fits on the tabletop.
  - \* **Be sure to include your name(s), grades (s), and teacher(s).**
  - \* **For interactive projects, complete the form "How to Interact With This Project."**
- Supplies: For interactive projects, **provide additional supplies for Friday** in a bag/box placed beneath the table and labeled with the student's name and project title. Please **provide ample supplies** so visitors may interact with the project on Thursday and all day Friday.
- Living Things: **Do not bring live animals to the Science Fair for display.** Also, do not cause injury or stress to any living creature while you are working on your project. This includes giving chemicals to an animal or dissecting an animal.
- Safety: Electrical projects must use batteries as the source of electricity; **outlets are not available.** All containers must be made of unbreakable material (**no glass**).
- **PLEASE NOTE: No volcanoes, slime or goo projects.** This is to encourage exploration of other topics. We will have an interactive volcano at the Science Fair.
- **PLACE MESSY/SPILLABLE PROJECTS IN A 3-INCH DEEP METAL PAN & PROVIDE PAPER TOWELS.** Recyclable aluminum pans from the grocery store work well. No glass containers.

## TYPES OF PROJECTS

**Collection With Classification**—A collection is a set of objects that have been placed into groups according to similar properties. Your project should include the objects as well as a cardboard trifold with a title and information about the collection. Each object should be labeled with a description.

**Experiment, Model, Demonstration or Display**—A project can be an experiment, model, demonstration, or display. On a cardboard trifold, describe the project in writing and include pictures or drawings if possible. Here are some examples of projects:

- Perform an **experiment** to determine if cold water freezes faster than warm water.
- Make a **model** of an engine out of cardboard, with diagrams to show the parts.
- **Demonstrate** how light reflects off different objects using a set of mirrors.
- Create a **display** about different kinds of monkeys and their habitats.

## ORGANIZING YOUR PROJECT

The scientific method includes these steps, which are helpful in organizing your project:

1. **Ask a Question**—How or why something happens.
2. **Form a Hypothesis**—What do you think is the answer to your question? The hypothesis states your prediction. Your experiment will prove if your hypothesis is correct.
3. **Test the Hypothesis**—Design and perform an experiment to test your hypothesis.
4. **Analyze the Results**—What happened? Describe the results of your experiment.
5. **Draw a Conclusion**—Was your hypothesis correct? What did you learn?

## COMPLETING YOUR PROJECT

Arrange any equipment or samples in front of your cardboard trifold. (If they are messy or spillable, place them in an aluminum pan.) Include on your cardboard trifold:

- **Name, teacher & grade** of all students who worked on the project
- The **title** of the project
- Your **hypothesis**
- A step-by-step **description** of how you collected information or did your experiment, including pictures or drawings if possible
- The **results** of your experiment
- Your **conclusion**
- For interactive projects, complete the form “How to Interact With This Project”

**Please keep these pages for your reference.**

They are also available online at the Ridge School eNews page.

Questions or feedback? Please contact any of us:

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