



Eastgate Elementary

VIRTUAL Science Fair 2021

*****Please UPLOAD your Flipgrid video of your experiment to <https://flipgrid.com/eesciencefair2021> before January 24th!*****

- You can work on your project by yourself or with partners (Eastgate Students ONLY). While parent involvement is welcomed, we strongly encourage students to do as much as possible on their own.
- You can think up your own project or get ideas from science books at home, from the library, your teacher, online, Eastgate PTA website or Pinterest!
- There are so many options for our 2021 Science Fair if you want to try something different from a traditional science fair project! Pick one of the formats listed on the next 3 pages.
- Present your science project using a tri-fold display board, props, or a Power Point. Upload a video of yourself explaining your experiment (see sample scripts). Upload your video to <https://flipgrid.com/eesciencefair2021> using your student email or use this guest code: EastgateSF_2021
- If you are planning on participating in the 2021 Science Fair, please fill out the online entry form <https://tinyurl.com/ScienceFair2021>

If you have any questions, please contact sciencefair@eastgatepta.org

HERE'S HOW TO GET STARTED!

OPTION 1: Standard Project format - Scientific Method

- **Begin with a question - the title for your experiment.** Think of something you want to learn about. Choose a topic that interests you, then ask a question about it!
- **State your “hypothesis”.** A hypothesis is your guess at the question. Think of what you expect the answer to your question might be. Take a guess!
- **Create an experiment.** To test your hypothesis, think up an experiment that will show if you are right. Gather all the supplies/materials you will need, list them on paper, then do the experiment!
- **Record your findings.** Describe your procedure (what you did in the order you did it) and tell what happened with your experiment. Write down everything you observe (see, smell, hear, etc.) happening during your experiment. Use of graphs or tables are encouraged. Science notebooks or research papers are awarded more points in judging!
- **State your conclusions.** Tell if your hypothesis was correct or incorrect and why. A short written description of what happened that includes the tools and process used to collect information. Did your experiment prove your hypothesis was right? If it did you may be able to come up with a theory. A theory means that most people accept the hypothesis as true. If your hypothesis wasn't correct, no worries! Historically, some of the most important experiments have been those which disprove the original hypothesis.
- **Display** – You can use a standard Tri-Fold Poster Board, props, or a Power Point in you video. Have fun showing off you Science Fair Project!

OPTION 2 - BUILD A MODEL:

- Determine what kind of scientific model you want to do:
 - (A) The What Model – shows what something is (like a model of a cell, or solar system)
 - (B) The How Model – shows how something works. Such as “How does a volcano explode?”
 - (C) The Why Model – shows why something happens. Such as “Why does the Earth have seasons?”
- Need some ideas? Go to <https://www.sciencebuddies.org/science-fair-projects/science-projects?s=model>
- Research your question and record your findings in your science journal.
- Make your model, making sure to label important features.
- Share your Findings from your journal in your video and show off your model masterpiece!

OPTION 3 - DO AN ENGINEERING EXPERIMENT:

Check out one of these links for some engineering experiment ideas:

www.education.com/science-fair/engineering/ OR <https://www.sciencebuddies.org/>

- What problem are you trying to solve?
- What materials did you use? 3) What did you do?
- What did you learn?
- Show off your engineering experiment in your video as if you were telling us how we can do it, too!

OPTION 4 - DO A COMPUTER SCIENCE EXPERIMENT (CODING):

- What is the goal of your program?
- Describe your code and any strategies you used (e.g., sequence, loops, ifthen, etc.?)
- Show off your program in your video and let us know what you did!

OPTION 5 - EXPLAIN YOUR SCIENCE JOURNAL FROM SCHOOL:

- Share what you learned about during a science lesson in class. For example, for Kindergarteners, you can share your Tree Scientist journal.
- Show us your journal and pictures (camera or drawings) of your lesson(s).