

Dear Parents,

October 5, 2021

It's that time of the year again! Scholars will begin working on Science Projects! Over the course of this week, I would like scholars to pick a topic and turn it in to me on **Seesaw by Monday, October 11th** for approval. All topics must be approved before they begin working on their projects. *Please note, no robotics or mold/bacteria growth projects will be allowed.* Remember, the topic must be testable. What are you trying to find out? If the question can be answered with a yes or no, then it is not a testable question. Attached to this document is a list of ideas on Archie for topics, but this must be something that scholars are curious about. Perhaps one of the ideas on the list will inspire a unique topic. In addition, scholars may visit Science Buddies for inspiration, however, please be advised not all projects on the site are considered "Science Fair Projects" with testable questions.

This year, scholars will be creating a Virtual Science Fair Board on Microsoft PowerPoint instead of the traditional science fair boards of the past. All scholars have access to Office 365 and PowerPoint in their student portals. They must log in to the student portal and click on the **Office 365** button on the first page of the portal. From there, they will log in using the same credentials as Performance Matters.

Username: studentID@students.dadeschools.net

Password: student date of birth and initials (MMDDYY__) no spaces and lowercase

Project topics are to be submitted on Seesaw under the activity named "Science Fair Topic Due Monday, Oct. 12". Scholars need to choose 3 topics, in order of preference.

If you have any questions or concerns, please do not hesitate to contact me at laura.hernandez@archimedeas.org. Thank you in advance for all your support.

Sincerely,

Mrs. Hernandez

4th grade Science Teacher

SCIENCE FAIR IDEAS

Okay, here is the hardest part of the whole project...picking your topic. But here are some ideas to get you started. Even if you don't like any, they may inspire you to come up with one of your own. Remember, check all project ideas with your teacher and parents, and don't do any project that would hurt or scare people or animals. Good luck!

- Does music have an effect on animal behavior?
- Does the color of food or drinks affect whether or not we like them?
- Does music have an effect on plant growth?
- Which kind of food do dogs (or any animal) prefer best?
- Which paper towel brand is the strongest?
- What is the best way to keep an ice cube from melting?
- What level of salt works best to hatch brine shrimp?
- Can the food we eat affect our heart rate?.
- Can background noise levels affect how well we concentrate?
- Does acid rain affect the growth of aquatic plants?
- What is the best way to keep cut flowers fresh the longest?
- Does the color of light used on plants affect how well they grow?
- What plant fertilizer works best?
- Does the color of a room affect human behavior?
- Do athletic students have better lung capacity?
- What brand of battery lasts the longest?
- Does the type of potting soil used in planting affect how fast the plant grows?
- Does having worms in soil help plants grow faster?
- Can plants grow in pots if they are sideways or upside down?
- Does the color of hair affect how much static electricity it can carry? (test with balloons)
- How much weight can the surface tension of water hold?
- What light brightness makes plants grow the best?
- Does the color of birdseed affect how much birds will eat it? (more info.) Do natural or chemical fertilizers work best?
- Can people tell artificial smells from real ones?

- What brands of bubble gum produce the biggest bubbles?
- Does age affect human reaction times?
- What is the effect of salt on the boiling temperature of water?
- Does shoe design really affect an athlete's jumping height?
- What type of grass seed grows the fastest?

Didn't see one you like? Don't worry...look over them again and see if they give you an idea for your own project that will work for you. Remember, find something that interests you, and have fun with it.