



All North Valley Christian Academy students are invited to participate in our upcoming science fair! Our science fair is designed to promote problem-solving skills and an enthusiasm for science. Submitting a science fair project is voluntary for grades K-5 and high school and mandatory for grades 6-8. To participate in this very fun, rewarding event, please read on to find out important information, tips, and project requirements.

### **NVCA Science Fair: March 8, 2023**

NVCA Science Fair Night: Wednesday, March 8, 2023 @ 5:30-7:00 pm

Entries need to be turned in between 7:45 a.m. – 8:30 a.m. on Wednesday, March 8 in the Multipurpose Room. Judging will occur after school from 3-5 pm. Students are encouraged to attend judging of their projects but are not required. Science Fair projects can be taken home after our Science Fair Family Night or after conferences on Thursday and Friday, March 9-10.

#### **Project Details**

Individual projects must be completed at home. Science projects usually provide parents with a great opportunity to work one-on-one with children. We encourage parents to work closely with your child during this process, but also know that student work and participation are most important. There will be four categories of science projects for each grade level.

- Life Sciences
- Chemistry
- Earth and Environmental Sciences
- Physics

Grade Levels are as follows:

- K-4
- 5-6\*
- 7-8\*+
- 9-12\*

\*Winners will be eligible for entry into the Arizona State Science Fair.

**+ The Science Fair is required for grade 8 but will need to be completed at home as there will not be class time dedicated to the projects.**

## **Types of Projects**

*Scientific Study Projects:* The student researches and makes a display and/or model about the topic of choice. For example, a K-1 student may have a display board describing three facts they learned about dinosaurs and make a model of a dinosaur out of clay. Or a first grader may have a display board describing seven facts about airplanes and make a model out of wood or paper. Please make sure any models are easy for your child to bring and set up at school. Photos of models are also permissible. This type of project is acceptable for kindergarten and grade 1.

*Invention Projects:* The student invents and builds a novel item that is useful to others and makes a display board explaining how the idea originated, how the invention can be used, and who might find it useful. If the inventor brings the invention to school, please make sure it is portable. Photos of the invention can be used, instead.

*Scientific Experiment Projects:* The student conducts an experiment using the scientific method and prepares a display board explaining the experiment. The display board must include the question, research, hypothesis, description of experiment (materials and procedure), and conclusion. An example of an experiment question might be “What ratio of vinegar to baking soda produces the best chemical volcano eruptions?” Research would be any reading that is done about baking soda and vinegar reactions summarized in one or two sentences. A hypothesis for this project would be a prediction or guess about the best ratio. The description includes what was used for the experiment and what occurred. The conclusion states the outcome of the experiment and a statement that answers the original question.

## **Project Requirements**

Students are required to have

- a lab notebook that includes the hypothesis, research information, materials, procedures, data, and results.
- a trifold poster with question, hypothesis, materials, procedures, data, results, and references used. Entries from grades 6-12 will also need an abstract.
  - Optional—pictures, actual experiment and/or materials

Detailed information from how to pick a topic to how to make a poster can be found on the school website at [www.northvalleyca.org](http://www.northvalleyca.org) under the Academic tab.

We encourage all students to consider doing a project. Mrs. Trillo and Dr. Krull will be available in the classrooms the last week of January and the third week of February to meet with the students and answer questions. We can be contacted via school email at [rebeccat@northvalleyca.org](mailto:rebeccat@northvalleyca.org) and [sarak@northvalleyca.org](mailto:sarak@northvalleyca.org) and are available by appointment after school to answer questions.



## Consent for Science Fair Participation

Student Name \_\_\_\_\_

Student Grade \_\_\_\_\_

Science Fair Project Title \_\_\_\_\_

Science Fair Project Plan \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_ I agree to support my child with their project.

Parent Signature \_\_\_\_\_

\_\_\_\_ I would like to volunteer to help students set up their projects on March 8, 7:45-8:30 am.

Parent Name \_\_\_\_\_

\_\_\_\_ I would like to help judge on March 8 from 3-5 pm.

Parent Name \_\_\_\_\_