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Sunset Hill Science Project Guide

Research Project Rules

1. **Have fun!**
2. All students who wish to participate must have turned in a *participation form*.
3. All projects require parental approval.
4. Students may work individually or with a partner or sibling.
5. Students and their parents must provide all supplies; however display boards will be made available by request.
6. Each entry must have a display no larger than 30" deep and 32" wide.
7. Commercial science kits should not be used.
8. Each science experiment needs to include a display of the title, question, hypothesis, variables, constants, procedure, results, and conclusion as outlined in the informational packet.
9. ***The use of biological materials, combustible or hazardous materials, or controlled substances, or procedures harming live animals are not allowed in experiments or at the fair.***
10. Live animals will **NOT** be displayed at the expo.
11. No open flames will be permitted.
12. Any projects needing to use electricity must conform to safe wiring practices and be approved by the Principal.
13. ***Remember, this is a children's science expo.*** Parents can assist and support their child, however, encourage your child to do as much as they can on their own.

What is a Science Research Project?

Investigation of an observation and/or question using the scientific method.

What is the scientific method?

It is the method that scientists use to investigate in science labs.

Scientific Method:

Make *Observations* – What do you see in nature? What do you notice in your home?

Ask *Questions* – Ask questions to about your observations. Why is something occurring?

Propose a *Hypothesis* – Generate a statement to explain your observations.

Design *Experiments* – Test your hypothesis with experiments.

Perform *Experiments* – Collect data and analyze your results. Do they support your hypothesis?

Report your *Conclusions* – Did your results support your hypothesis? If yes, explain. If no, what would your new hypothesis be and what new experiments can you run?

Here is a link to a guide for different Science Experiments for kids:

<https://www.acs.org/content/acs/en/education/resources/k-8/science-activities.html>



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Science Experiment *Ideas*

for K-5 (or anyone really!) from USD 497

1. How much salt does it take to float an egg?
2. What kind of juice cleans pennies best?
3. Which dish soap makes the most bubbles?
4. Do watches keep time the same?
5. On which surface can a snail move faster - dirt or cement?
6. What brand of raisin cereal has the most raisins?
7. How can you measure the strength of a magnet?
8. Do ants like cheese or sugar better?
9. Can the design of a paper airplane make it fly farther?
10. Do the roots of a plant always grow downward?
11. Can you tell what something is just by touching it?
12. What kinds of things do magnets attract?
13. What foods do mealworms prefer?
14. How long will it take a teaspoon of food dye to color a glass of still water?
15. Does a bath take less water than a shower?
16. Can you tell where sound comes from when you are blindfolded?
17. Can plants grow without soil?
18. Does warm water freeze faster than cool water?
19. In my class who is taller - the boys or the girls?
20. Do different types of apples have the same number of seeds?
21. Do bigger seeds produce bigger plants?
22. Which materials absorb the most water?
23. Do wheels reduce friction?
24. What materials dissolve in water?
25. What is the soil in my schoolyard made of?
26. Does holding a mirror in front of a fish change what the fish does?
27. What color birdseed do birds like best?
28. What holds two boards together better - a nail or a screw?
29. Will bananas brown faster on the counter or in the refrigerator?
30. Does temperature affect the growth of plants?
31. Do mint leaves repel ants?
32. Does a ball roll farther on grass or dirt?
33. Do all objects fall to the ground at the same speed?
34. Does anyone in my class have the same fingerprints?
35. Which travels faster - a snail or a worm?
36. Which paper towel is the strongest?
37. Can plants grow from leaves?
38. Which dissolves better in water salt or baking soda?
39. Can things be identified by just their odor?
40. With which type of battery do toys run longest?

Sunset Hill 2024 Science Expo
Research Project Entry Form