

Escalante Valley Elementary Science Fair  
Registration Form  
Return to student's teacher by May 1, 2017

Student's first and last name \_\_\_\_\_

Grade \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_

The original science question (known as the problem) my project will answer (solve) is:

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My project will be: (please check one)

- **Collection (Kindergarten and 1<sup>st</sup> grade only)** you will collect and organize something of interest, answering questions related to the observations made while exploring your world. Examples: What kinds of insects can be found in my backyard? What types of tree leaves can be found on my street?
- **Experiment (First through 6<sup>th</sup> grades)** you will conduct an experiment to find the answer to your question/problem. The Scientific Method will take you through the process of asking a question, doing some research, making a hypothesis (guess), planning and conducting your experiment and analyzing your results.
- **Invention (Second through 6<sup>th</sup> grades)** everyone can be an engineer. You will design an object or process that will solve a real life problem. The Engineering Design Process will take you through the process of finding a problem, doing a little research, brainstorming solutions, choosing one solution, developing a plan, and building a model.
- **Research Project (Second through 6<sup>th</sup> grade)** Someone has already found the answer to your question/problem, and you will research their answer/solution by reading books, talking to experts, and gathering information from other sources. Your display board will have drawings, photographs, charts, and graphs. Example: How do clouds form, how does a light bulb operate? How does solar light work?

\*Our school has decided to include more categories to allow more students to "show off" their strengths.

## Collection Judging Rubric

Title of Project: \_\_\_\_\_

Grade Level: \_\_\_\_\_

Scientist: \_\_\_\_\_

<p>To what degree does the project use <b><u>Observation Skills (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• Records the data about size, shape, texture, weight, color etc.</li> <li>• Includes drawings, photos, charts, or graphs.</li> <li>• Includes questions and guesses (inferences) that are the result of observations.</li> </ul>	<p>Circle the number that best describes the project</p> <p style="text-align: center;">3 2 1 0</p>
<p>To what degree does the project show <b><u>Understanding and Clarity (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• Complete explanation of project.</li> <li>• Fully able to discuss all parts of the project.</li> <li>• Responds to and clarifies questions.</li> </ul>	<p style="text-align: center;">3 2 1 0</p>
<p>To what degree does the project show <b><u>Creative Ability (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• Student put forth all effort in presentation.</li> <li>• Project was appropriate and within the ability of the student</li> <li>• Display is neat, organized and free of errors.</li> <li>• Display is clear and easy to understand.</li> </ul>	<p style="text-align: center;">3 2 1 0</p>

## Experiment Judging Rubric

Title of Project: \_\_\_\_\_

Grade Level: \_\_\_\_\_

Scientist: \_\_\_\_\_

<p>To what degree does the project use <b><u>Scientific Thought (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• <b>Question</b> is important, original and testable</li> <li>• <b>Research</b> helps the understanding</li> <li>• <b>Hypothesis</b>-complete and testable guess</li> <li>• <b>Experiment</b> has variables identified</li> <li>• <b>Analysis</b>-showing data collected</li> <li>• <b>Conclusion</b> is clear</li> </ul>	<p>Circle the number that best describes the project</p> <p style="text-align: center;">3 2 1 0</p>
<p>To what degree does the project show <b><u>Understanding and Clarity (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• Complete explanation and well written</li> <li>• Fully able to discuss all parts of the project.</li> <li>• Responds to and clarifies questions with strong speaking skills.</li> <li>• Easily understood and easy to follow</li> </ul>	<p style="text-align: center;">3 2 1 0</p>
<p>To what degree does the project show <b><u>Creative Ability (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• Student put forth all effort in presentation.</li> <li>• Project was appropriate and within the ability of the student</li> <li>• Project showed original thinking and methods</li> <li>• Display is neat, organized and free of errors.</li> </ul>	<p style="text-align: center;">3 2 1 0</p>

## Invention or Engineering Judging Rubric

Title of Project: \_\_\_\_\_

Grade Level: \_\_\_\_\_

Scientist: \_\_\_\_\_

<p>To what degree does the project use <b><u>Engineering Design Process (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• <b>Problem</b> is important and needs to be solved</li> <li>• <b>Research</b> helps the understanding</li> <li>• <b>Idea or solution</b> is aligned to the intent of the problem</li> <li>• <b>Develop a plan</b> that is clear</li> <li>• <b>Build a model</b></li> </ul>	<p>Circle the number that best describes the project</p> <p style="text-align: center;">3 2 1 0</p>
<p>To what degree does the project show <b><u>Understanding and Clarity (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• Complete explanation and well written</li> <li>• Fully able to discuss all parts of the project.</li> <li>• Responds to and clarifies questions with strong speaking skills.</li> <li>• Communicates the success or failure of design.</li> </ul>	<p style="text-align: center;">3 2 1 0</p>
<p>To what degree does the project show <b><u>Creative Ability (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• Student put forth all effort in presentation.</li> <li>• Project was appropriate and within the ability of the student</li> <li>• Project showed original thinking and methods</li> <li>• Display is neat, organized and free of errors.</li> </ul>	<p style="text-align: center;">3 2 1 0</p>

## Research Judging Rubric

Title of Project: \_\_\_\_\_

Grade Level: \_\_\_\_\_

Scientist: \_\_\_\_\_

<p>To what degree does the project use <b><u>Research Skills (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• <b>Problem/Question</b> is important and interesting</li> <li>• <b>Research</b> helps understanding, answers the question, and is from many sources.</li> <li>• <b>Includes facts.</b></li> <li>• <b>Includes drawings, photos, charts or graphs.</b></li> </ul>	<p>Circle the number that best describes the project</p> <p style="text-align: center;">3   2   1   0</p>
<p>To what degree does the project show <b><u>Understanding and Clarity (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• Complete explanation and well written</li> <li>• Fully able to discuss all parts of the project.</li> <li>• Responds to and clarifies questions with strong speaking skills.</li> </ul>	<p style="text-align: center;">3   2   1   0</p>
<p>To what degree does the project show <b><u>Creative Ability (3 points)</u></b></p> <ul style="list-style-type: none"> <li>• Student put forth all effort in presentation.</li> <li>• Project was appropriate and within the ability of the student</li> <li>• Display is neat, organized and free of errors.</li> <li>• Display is clear and easy to understand.</li> </ul>	<p style="text-align: center;">3   2   1   0</p>