

# Science Fair Project Rubric

Name: \_\_\_\_\_ Partners: \_\_\_\_\_

Section	Requirements	Possible Points	Student Grade	Teacher Grade
<b>Planning (50 points)</b>				
Testable Question	<ul style="list-style-type: none"> <li>- Project question is testable in a classroom setting</li> <li>- Conclusion to project results in answer that is not "yes" or "no"</li> </ul>	10		
Hypothesis	<ul style="list-style-type: none"> <li>- Hypothesis is clear and concise</li> <li>- Hypothesis is SPECIFIC and provides reasoning</li> <li>- Based on background research</li> </ul>	10		
Description	<ul style="list-style-type: none"> <li>- Quick description of project is clear, concise, and provides broad overview</li> <li>- Allows new reader to gain quick overview of project</li> </ul>	10		
Materials	<ul style="list-style-type: none"> <li>- All items required to complete experiment are listed, including the quantity and scientific names for tools used</li> <li>- (ex. 3 Erlenmeyer flasks.)</li> </ul>	20		
<b>Research (80 points)</b>				
Background Questions	<ul style="list-style-type: none"> <li>- At least 3 background questions are listed and answered (4 for groups of 4 students)</li> <li>- Questions are relevant to project, and help the viewer better understand the context</li> <li>- Answers are clear, scientifically accurate, and in students own words</li> </ul>	40		
Citations & Bibliography	<ul style="list-style-type: none"> <li>- All background research is properly cited within text</li> <li>- All resources used are found within bibliography</li> <li>- Literature Review is included</li> </ul>	40		
<b>Experimental Design (80 points)</b>				
Variables	<ul style="list-style-type: none"> <li>- There is one independent and one dependent variable</li> <li>- Variables are clearly and correctly identified</li> </ul>	20		
Control	<ul style="list-style-type: none"> <li>- Control setting is identified as a baseline for comparing data</li> <li>- Positive/negative controls are identified if needed for project</li> </ul>	10		
Procedure	<ul style="list-style-type: none"> <li>- Stepwise process is laid out for completing experiment</li> <li>- Each step is SPECIFIC (ex. take three 100mL beakers and fill each with 25 mL of water)</li> <li>- Procedure could be handed to a new individual and still followed</li> </ul>	30		

Images	<ul style="list-style-type: none"> <li>- Pictures showing the experiment process are present</li> <li>- Pictures should show materials used, and participants completing experiment</li> <li>- Pictures should show progress of time (Day 1, Day 2, Day 3 or Before &amp; After, etc.)</li> </ul>	20		
<b>Results (80 points)</b>				
Data Tables	<ul style="list-style-type: none"> <li>- All data is recorded in organized tables</li> <li>- Table headings are labeled with clear titles and units</li> </ul>	40		
Graphs	<ul style="list-style-type: none"> <li>- Data is portrayed visually in a graph suitable for the information</li> <li>- Independent and dependent variables are properly set up</li> </ul>	40		
<b>Analysis (40 points)</b>				
Data Interpretation & Conclusions	<ul style="list-style-type: none"> <li>- Analysis section includes a written interpretation of data</li> <li>- Answers: What does the data say, and what did you learn?</li> <li>- Makes conclusions that answers the hypothesis, based on data</li> </ul>	40		
<b>Other (110 points)</b>				
Abstract (40 points)	<ul style="list-style-type: none"> <li>- Abstract is present at beginning of project</li> <li>- Each question asked in "Planning Guide" is answered</li> <li>- Uses scientific language</li> <li>- Is clear and specific</li> <li>- About 10 sentences long</li> </ul>	40		
Project Board (40 points)	<ul style="list-style-type: none"> <li>- Board is complete with all components listed above</li> <li>- Font is formal, professional and properly sized for distance reading</li> <li>- Information is laid out in clear, organized format</li> <li>- All information is properly spelled</li> <li>- Creative, visually appealing</li> </ul>	40		
Individual Effort (30 points)	<ul style="list-style-type: none"> <li>- Worked well with other group members</li> <li>- Pulled own weight for project</li> <li>- Worked to best of individual ability</li> </ul>	30		
Total Points		400		

**Grading Notes:**

- This project goes under the Projects/Labs portion of your grade, and will account for about 25% of your Term 2 grade.
- For each section above, failure to meet any requirement listed will result in deduction from the total possible points.
- Any missing sections will receive a score of zero.
- Failure for student to complete the "Student Grade" section will result in an automatic deduction of 20 points.
- A grade of 80-89% will grant you a 5% Term 2 grade increase, a grade of 90-100% will grant you a 10% grade increase.