

# Wisconsin FFA Agriscience Fair Judge's Rubric

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

Chapter: \_\_\_\_\_

Topic: \_\_\_\_\_ Judge's Initials \_\_\_\_\_

Category: \_\_\_\_\_

Division: \_\_\_\_\_

<b>Knowledge Gained</b> <i>15 points possible for category</i>		Exemplary	Well Done	Proficient	Developing	Need to include
Is their evidence that the student has acquired scientific skills and/or knowledge by doing this project? Topic is original <b>OR</b> presents an original variation to already completed research						
Does the exhibitor recognize the scope and limitation of the problem he/she has selected? Potential impact of the results of this experiment?						
<b>Scientific Approach</b> <i>15 points possible for category</i>		Exemplary	Well Done	Proficient	Developing	Need to include
Has the problem been clearly stated? Independent and dependent variables? Question is clear and solvable <ul style="list-style-type: none"> <li>• Identified</li> <li>• Dependent variables all caused by independent variables</li> </ul>						
Hypothesis <ul style="list-style-type: none"> <li>• Includes the independent and dependent variables</li> <li>• Clearly stated (If...Then" format)</li> <li>• Is a potential answer to the question</li> </ul>						
Has the exhibitor solved the problem by using scientific facts as a basis for new conclusions?						
Is the exhibitor aware of the basic scientific principles that lend support to the methods used and the conclusions reached?						
<b>Experimental Research</b> <i>15 points possible for category</i>		Exemplary	Well Done	Proficient	Developing	Need to include
Has data been gathered from work done by the student, rather than the results from the work of others?						
Controlled variables <ul style="list-style-type: none"> <li>• Clearly identified</li> <li>• All held steady throughout experiment</li> </ul>						
Can the research be the basis for further experimentation?						
Is the project actually a model or demonstration (instead of scientific research)?						
<b>Individual/Team Work</b> <i>15 points possible for category</i>		Exemplary	Well Done	Proficient	Developing	Need to include
Has material been gathered and cited using an appropriate format?						
Is log book present for examination? Does it contain detailed information about the research process?						
Format <ul style="list-style-type: none"> <li>• Pages numbered</li> <li>• All entries dated</li> <li>• Daily notes</li> <li>• Handwritten in pen (data may be securely attached)</li> </ul>						
Content <ul style="list-style-type: none"> <li>• Background research notes</li> <li>• Contacts/sources</li> <li>• Experiment set-up</li> <li>• Data collected/results</li> <li>• Reflection/comments</li> </ul>						
If a team project, is there evidence of collaboration?						

<b>Thoroughness</b> <i>15 points possible for category</i>		Exemplary	Well Done	Proficient	Developing	Need to include
Is the exhibitor aware of the empirical method (necessity of repeating trials) and importance of controlling the variables in order to reach valid conclusions?						
Has the analysis of the problem been orderly?						
Procedure <ul style="list-style-type: none"> <li>Steps are listed and sequential</li> <li>Safety issues have been addressed</li> <li>Adequate number of trials/sample size</li> <li>Another scientist could successfully repeat</li> </ul>						
How successfully was the original plan carried through to completion?						
<b>Information</b> <i>15 points possible for category</i>		Exemplary	Well Done	Proficient	Developing	Need to include
Are known facts and principles stated correctly and used accurately?						
Have the results of experiments been reported accurately even though faulty experimental methods or conditions may have made the data unreliable?						
Have errors been noted?						
<b>Results/Conclusion</b> <i>15 points possible for category</i>		Exemplary	Well Done	Proficient	Developing	Need to include
Conclusions are supported by the data <ul style="list-style-type: none"> <li>Explanation is made for how or why the hypothesis was supported or contradicted</li> <li>Relationship between independent and dependent variables explained</li> </ul>						
Evaluation of your experimental design <ul style="list-style-type: none"> <li>Sources of error have been considered</li> <li>What could have been improved? What was designed well?</li> <li>What changes would you make? Any plans for future study?</li> </ul>						
Are known facts and principles stated correctly and used accurately?						
Is information provided as to what was learned as a result of the research?						
<b>Interview</b> <i>15 points possible for category</i>		Exemplary	Well Done	Proficient	Developing	Need to include
2-5 minute opening statement including: <ul style="list-style-type: none"> <li>How you got the idea</li> <li>Brief experiment overview</li> <li>Results/conclusion statement</li> <li>How research will help people/society</li> <li>Is the exhibitor able to communicate their knowledge of the project?</li> </ul>						
Answers <ul style="list-style-type: none"> <li>Work clearly done by student</li> <li>Research challenging for ability</li> <li>Significant knowledge gained on scientific method</li> </ul>						
Presentation <ul style="list-style-type: none"> <li>Speak loudly and clearly using appropriate grammar</li> <li>Presents background knowledge in a succinct manner</li> </ul>						
<b>Visual Display (beyond content)</b> <i>15 points possible for category</i>		Exemplary	Well Done	Proficient	Developing	Need to include
Dimensions followed: <ul style="list-style-type: none"> <li>Entry info in upper right corner</li> <li>Size (30" deep X 48" wide X 108" high)</li> </ul>						
Eye-catching <ul style="list-style-type: none"> <li>Title clear and concise</li> <li>Captions with photos</li> <li>Minimum of 16 point font</li> <li>Organized in easy to follow style; logical &amp; interesting manner</li> <li>Neat</li> <li>Spelling/capitalization correct</li> <li>Has the data been presented in the best manner for the particular type of information involved?</li> </ul>						