

## The Trinity Middle School 2021 Science Fair Schedule



Welcome to our 2021 Science Fair. The science fair is for all the Middle School Students.

For questions regarding "Science Fair", feel free to ask Mr. Evensen at [principal@tcskeene.com](mailto:principal@tcskeene.com).

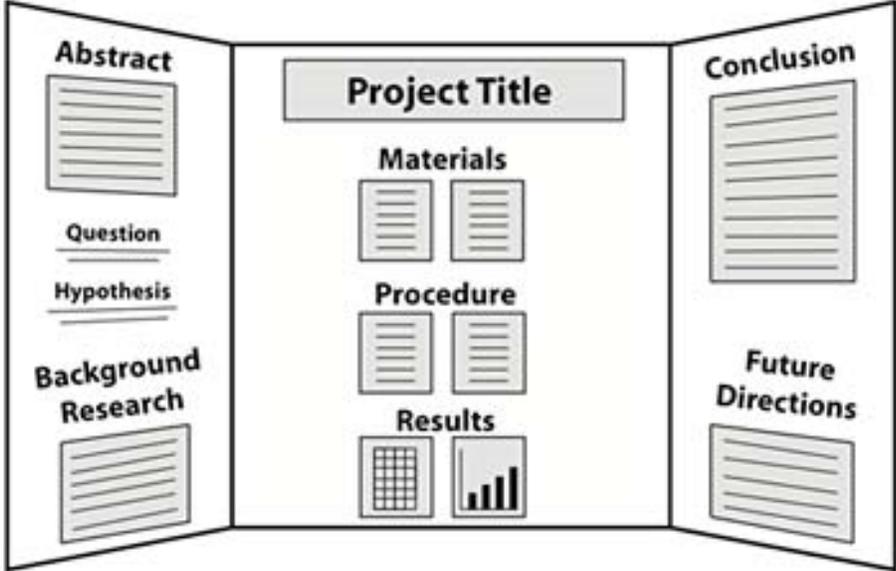
For the middle school, 7<sup>th</sup> & 8<sup>th</sup> grades will be submitting individual projects, while 5<sup>th</sup>-6<sup>th</sup> grades may work in groups with teacher approval. The Science Fair project is a required part of the science class curriculum and will be awarded grades on following directions, journal checks, submitting work on time, display board, report, and presentation. I will be explaining the components and expectations through the 3<sup>rd</sup> quarter. The Science Fair schedule is:

February 18-May 14	Make entries into your own Science Fair Journal. This is almost like a diary of all things you've done.
March 11	Submit a topic you would like to study for discussion/endorsement from your teacher. Submit the signed Checklist/Schedule form.
March 18	Submit a list of references to support your research and experiments.
March 25	Submit list of at least 10 interesting points from your research as of March 25 <sup>th</sup> . Give full citations for each reference source. Put this information in SF journal.
April 1 (or sooner)	Submit a signed Project Proposal Form indicating your intended project.
April 8	Submit a Hypothesis you'd like to prove and a rough idea of how you would test this Hypothesis.
April 9 – May 7	Perform your experiments. In your SF journal, keep copious notes on every aspect of the process and results.
May 10	Bring Project Board.
May 10-14	Assemble Board in class
May 17 (or sooner)	Submit your final report.
May 20	Give Mr. Evensen your Report, Notebook, & Display
May 21-26	Present your project in class.
May 27	Parents view projects, and you explain projects to them.

## Trinity Christian School Science Fair Checklist/Schedule - Grades 5-8

<p><i><b>NOW</b></i></p>	<ul style="list-style-type: none"> <li>• Use <a href="http://www.sciencebuddies.org">www.sciencebuddies.org</a> or other resources to research science fair topics. Scholastic.com also has some great information!</li> <li>• Use a new composition book as a science fair journal.</li> <li>• Read through Project Guide topics (all of them!) at: <a href="http://www.sciencebuddies.org/science-fair-projects/project_guide_index.shtml">http://www.sciencebuddies.org/science-fair-projects/project_guide_index.shtml</a></li> </ul>
<p><i><b>February 18– May 14, 2021</b></i></p>	<p>Begin and continuously make entries in Science Fair Journal for the duration of your project. Keep a log of any and all your activity concerning choosing and completing your project, including research, experiments, discussions, readings, activities such as shopping for supplies, preparing your display board, interviewing people about your topic, etc. Any time you think or do anything related to your project you should write about it in your science fair journal. Read about the journal process at: <a href="http://www.sciencebuddies.org/science-fair-projects/project_laboratory_notebook.shtml">http://www.sciencebuddies.org/science-fair-projects/project_laboratory_notebook.shtml</a></p>
<p><i><b>February 18– March 11, 2021</b></i> SF Journal checks (graded assignment): 3/18, 4/22 &amp; 5/13</p>	<p>Research and choose a topic for your Science Fair project, using the internet, books, and other resources. Work in class as well as at home on understanding the scientific process. Make sure you understand what you need to do for your Science Fair project. Write in your Science Fair Journal about all the research you do. Keep written bibliographic notes on all sources you use.</p>
<p><i><b>March 11, 2021</b></i> (graded assignment)</p>	<p><b>Science Fair Checklist/Schedule acknowledgement form signed by student and parent and turned in.</b></p>
<p><i><b>March 18, 2021</b></i>  SF Journal check: (graded assignment) 3/18</p>	<p>A written list of at least <b>three references</b> used to research your topic/experiments is due. <b>This is a graded assignment.</b> These must be written in your Science Fair Journal. Sources may include:</p> <ul style="list-style-type: none"> <li>• Books - including the copyright and author.</li> <li>• Web sites – cannot be your only source. You may use <a href="http://www.sciencebuddies.org">www.sciencebuddies.org</a> plus <b>one</b> other web source.</li> <li>• Encyclopedias</li> <li>• Magazines</li> <li>• Interviews with people who are knowledgeable about your topic</li> </ul>
<p><i><b>March 25, 2021</b></i>  SF Journal check: (graded assignment) 3/18</p>	<p>Submit <b>at least 10 “interesting points”</b> from your research. These are to be written in your Science Fair Journal. <b>This is a graded assignment.</b> If the interesting point is from a book, include the book title, author, and page number(s). If the interesting point is from a web site, include the entire web address. Think about these ideas when finding interesting information about your topic:</p> <ul style="list-style-type: none"> <li>• <i>Why it’s interesting</i></li> <li>• <i>Who discovered or studied it in the past</i></li> <li>• <i>Who benefits from it</i></li> <li>• <i>How it affects you/others</i></li> <li>• <i>Previous results from experiments</i></li> <li>• <i>Scientific facts/principles</i></li> <li>• <i>Other points of interest</i></li> </ul>
<p><i><b>April 1, 2021 or sooner</b></i> (graded assignment)</p>	<p><b>Science Project Proposal Form signed by Student, Parent, and Teacher due.</b> Students not turning in a signed project proposal form will receive a zero score and Mr. Evensen will assign them a science fair project.</p>

## Trinity Christian School Science Fair Checklist/Schedule - Grades 5-8

<p><i>April 8, 2021</i></p> <p><b>SF Journal check: (graded assignment) 4/22 &amp; 5/13</b></p>	<p>Final Hypothesis written in Science Fair Journal is due. <b>This is a graded assignment.</b></p> <ul style="list-style-type: none"> <li>• A hypothesis is an educated guess about how things work.</li> <li>• Most of the time a hypothesis is written like this: "If _____ [I do this] _____, then _____ [this] _____ will happen." (Fill in the blanks with the appropriate information from your own experiment.)</li> <li>• Your hypothesis should be something that you can actually test, what's called a testable hypothesis. In other words, you need to be able to measure both "what you do" and "what will happen."</li> <li>• Read more about it at: <a href="http://www.sciencebuddies.org/science-fair-projects/project_hypothesis.shtml">http://www.sciencebuddies.org/science-fair-projects/project_hypothesis.shtml</a></li> </ul>
<p><i>April 9-May 7, 2021</i></p> <p><b>SF Journal check: (graded assignment) 4/22 &amp; 5/13</b></p>	<ul style="list-style-type: none"> <li>• Perform your experiment. Do it more than once and make sure you are testing ONE thing only!</li> <li>• Take photos to document your experiment's progress.</li> <li>• Keep carefully written records of results in your Science Fair Journal. Include a list of the materials used and the exact procedure followed. Write about the results of the experiment and then analyze the results.</li> <li>• Make charts and/or graphs from your data to organize your results.</li> <li>• Explain your results in writing. Why was your hypothesis proved correct or incorrect? Any interesting observations?</li> <li>• Draw conclusions from your results.</li> </ul>
<p><i>May 10, 2021</i> <b>(graded assignment)</b></p>	<p>Bring blank display board to school. <b>This is a graded assignment.</b> Use a regular-size tri-fold board made for Science Fair presentations. We will discuss how to assemble the board.</p>
<p><i>Before May 14, 2021</i></p>	<p><b>Assemble your board.</b> Mount your graphs, charts, illustrations, photographs, signs, and summary sheets according to illustration shown below. Neatness counts! Practice giving your presentation in front of your family.</p> 

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<p><i>Before May 17, 2021</i></p>	<p><b>Write, edit, and review your final report. The final report should include:</b></p> <ul style="list-style-type: none"> <li>• Title Page</li> <li>• Abstract</li> <li>• Table of contents</li> <li>• Question, variables, hypothesis</li> <li>• Background Research (what you learned in researching/choosing your project)</li> <li>• Materials list</li> <li>• Experimental procedure</li> <li>• Data analysis and discussion (including chart(s) and graph(s))</li> <li>• Conclusions</li> <li>• Acknowledgements</li> <li>• Bibliography</li> </ul> <p>Read about how to do it at:  <a href="http://www.sciencebuddies.org/science-fair-projects/project_final_report.shtml#keyinfo">http://www.sciencebuddies.org/science-fair-projects/project_final_report.shtml#keyinfo</a></p>
<p><i>May 20, 2021 (graded assignment)</i></p>	<p>Turn in Science Fair Report, Science Fair Notebook &amp; Project Display Board.</p>
<p><i>May 21-26, 2021 (graded assignment)</i></p>	<p>Students present Science Fair projects in class.</p>
<p><i>Thursday, May 27, 2021 (graded assignment)</i></p>	<p><b>Trinity Science Fair – Students are required to attend. Parents/families/friends are encouraged to attend.</b></p>

# Science Fair Project Proposal Form

(Due April 1<sup>st</sup>, 2021, or Sooner)

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

The question I plan to investigate in my experiment (*please phrase as a question*):

## Science Fair Project Question Checklist

1. Have you met your teacher's requirements for the project?	Yes / No
2. Is the topic interesting enough to read about and work on for about the next 7 weeks?	Yes / No
3. Can you find at least 3 sources of written information on the subject?	Yes / No
4. Can you measure changes to the important factors (variables) using a number that represents a quantity such as a count, percentage, age, mass, weight, length, width, voltage, pressure, velocity, rate, energy, time, etc.? Or, just as good, are you measuring a factor (variable) that is simply present or not present? For example: <ul style="list-style-type: none"><li>Lights <b>ON</b> in one trial, then lights <b>OFF</b> in another trial</li><li><b>USE</b> fertilizer in one trial, then <b>DON'T USE</b> fertilizer in another trial</li></ul>	Yes / No
5. Can you design a "fair test" to answer your question? In other words, can you change only one factor (variable) at a time, and control other factors that might influence your experiment, so that they do not interfere?	Yes / No
6. Is your experiment safe to perform?	Yes / No
7. Do you have all the materials and equipment you need for your science fair project, or will you be able to obtain them quickly and at a very low cost?	Yes / No
8. Do you have enough time to do your experiment more than once before the science fair?	Yes / No

**I have discussed the project idea and the checklist with my parent(s), and I am willing to commit to following through on this project.**

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

**I have discussed the project idea and the checklist with my student, and I believe he or she can follow through with this project.**

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

\_\_\_\_\_  
Date

**I have discussed the project idea and the checklist with my student, and I believe he or she can follow through with this project.**

\_\_\_\_\_  
Teacher Signature

\_\_\_\_\_  
Date

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*Students and parents: Sign this page and have **the student return it to Mr. Evensen at school by Friday, March 5, 2021.***

**Returning this form is a graded assignment for students.**

*Keep the rest of the handout at home for easy referral to important due dates.*

***Students are required to attend the Science Fair on Thursday, May 27, 2021.***

My student/child and I have read the Grade 5<sup>th</sup> – 8<sup>th</sup> Science Fair checklist/schedule.

Student name: \_\_\_\_\_ Grade: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Parent name: \_\_\_\_\_

Parent signature: \_\_\_\_\_

Date: \_\_\_\_\_