

Retired Educators of the Center for Excellence in Mathematics and Science Education (RECEMSE) STEM Research Fair Resources Student Resources

Ten Steps for a Science project

Science Project - 1 Ask a Measurable Question - YouTube

<http://www.youtube.com/watch?v=CO8oENTHv-g>

Science Project - 2. Start a Journal

<http://www.youtube.com/watch?v=yuFDyjr1hU>

Science Project - 3. Research & Form a hypothesis

<http://www.youtube.com/watch?v=L6uOJX3dYPE>

Science Project - 4. Write a Procedure

<http://www.youtube.com/watch?v=bAYhDfvsEFU>

Science Project - 5. Fill out Required Forms

<http://www.youtube.com/watch?v=PIOwEibOGco>

Science Project - 6. Conduct the Experiment

<http://www.youtube.com/watch?v=rGunpqKpuH8>

Science Project - 7. Create Graphs & Charts, then Analyze the Data

<http://www.youtube.com/watch?v=DVrbmDDG8Zs>

Science Project - 8. Form a Conclusion

http://www.youtube.com/watch?v=6dCT_xC1qpM

Science Project - 9. Write a Research Paper and an Abstract

<http://www.youtube.com/watch?v=LvzcvRVJ1bk>

Science Project - 10. Create a Display and Practice a Presentation

<http://www.youtube.com/watch?v=G4L5i6dJzd0>

Science Project Ideas web sites

- Science Buddies Browse the Project Ideas Index
http://www.sciencebuddies.org/science-fair-projects/project_ideas.shtml#browseallprojects
<http://www.education.com/science-fair/>
- Science Buddies
http://www.sciencebuddies.org/science-fair-projects/project_ideas.shtml#browseallprojects
- Science fair ideas
www.sciencebob.com
- Sciencspot.net
<http://www.sciencspot.net/Pages/sciclub.html>
- Infotopia
https://www.infotopia.info/index_oscar_mayer_weinermobile.html

Teacher Resources

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Prepare for the Science Fair by Kevin Temmer

<http://www.youtube.com/watch?v=7e5XU0HKFLA>

Google Forms for creating rubric

<https://docs.google.com/forms/d/1evew971MzTmP1zhLDersvSkqHvV1Eif23l6ZPrZP1KU/viwwform>

Scientific Method Vs Engineering Design Process

<https://www.youtube.com/watch?v=ZQF8iU7ygoM>

Scientific Method Song

<https://www.youtube.com/watch?v=wlb7tLJy5AI>

(animated)

Science Buddies Browse the Project Ideas Index

http://www.sciencebuddies.org/science-fair-projects/project_ideas.shtml#browseallprojects

<http://www.education.com/science-fair/>

Science Buddies

http://www.sciencebuddies.org/science-fair-projects/project_ideas.shtml#browseallprojects

science fair ideas

www.sciencebob.com

Six Week Timeline

Teacher's Class: _____

Date of the science fair: **Morgan State University**

Student Name: _____

Student class: _____

Student Period: _____

Scheduled
Completion
Date

Actual
Completion
Date

Week One

- Choose a topic, problem and hypothesis to investigate
- Check resources (in school or community library)
- Contact experts in the field
- Gather all the written material you can find on the topic

Week Two

- Begin putting your project notebook together
- Start collections or experiment
- Begin designing display unit

Week Three

- Take the photographs you need
- Complete your research
- Consult with experts (scientists, college professors, teachers, parents) to check your progress
- Write the first draft of report

Week Four

- Continue collecting items for display
- Continue your experiments
- Set up your apparatus and test it

Week Five

- Write second draft of report
- Construct background for display
- Design and assemble graphs and charts
- Complete lettering for display unit and mount it
- Double check your written data
- Complete experiment and record data

Week Six

- Write and type final report
- Set up display unit and test and transport to science fair site

Total