



Saint Ann PTO Presents

S.T.E.M. Stars

Looking for something fun, different, and interesting to do this summer? Want to learn about **Science, Technology, Engineering, and Math** (STEM)? Then why not become a Saint Ann **STEM Star**?! Here's how it works:

Attached is a list of 8 different STEM activities you can do yourself or with your parents' help. Do one activity from each STEM category over summer vacation (4 total) and make a record of what you did. When you come back to school next Fall, turn in your entry and you'll be recognized as a **STEM Star**! You'll get a special gift for your achievement from the PTO and a 1-day "Out-of-Uniform" pass from Principal Therrell herself! What's more, the Saint Ann STEM Committee will evaluate everybody's entry. The three students with the best entries from grades K-2, 3-5, and 6-8 will win an extra award and will be named Saint Ann's **STEM Superstars** for 2013-2014!!

The STEM Committee has provided Internet links for each of the 8 STEM activities to help you get started, or you can come up with ideas of your own. This is an optional program. If you decide to participate, the only other rules are that you finish by the first day of school and that you have fun! So put on your lab coats, sharpen your pencils, get out your telescopes, and start discovering the science and math in God's world all around us! If you have any questions, you can send an e-mail anytime to STEMSTARS@stann.org.

S.T.E.M. Stars Entry Sheet

Name: _____ Rising Grade: _____

Choose one activity from each STEM category below and circle the number. For each activity you complete, attach records and materials as required.

SCIENCE

1. Do a science experiment and write a 1-page report about it.
2. Read about a famous scientist and write down four interesting things you learned about him/her.

TECHNOLOGY

3. Take (or draw) a picture of a cool machine you have seen and explain how it works.
4. Do a geocaching activity (www.geocaching.com) using a GPS device or a smart phone app and write about what happened.

ENGINEERING

5. Pick a monument and research how it was built. Describe two challenges the designers or builders had to overcome.
6. Learn what patents are. Use your computer to find patents for three inventions you use and print a picture of them.

MATHEMATICS

7. Pick a place in Canada or Mexico you would like to visit by car. Use a paper map to estimate how far away it is, how long it will take to drive there, and how much it will cost for gasoline.
8. Create a piece of art the size of a sheet of paper (8.5" x 11") using only geometric shapes. Submit the art (or photo if it's 3-D).

S.T.E. M. Stars Internet Resources

The following are a few suggested web sites which may help you perform your chosen STEM activities. They are only intended to get you started. Feel free to search for other web resources—there are many of them!

SCIENCE

1. <http://scifun.chem.wisc.edu/HOMEEXPTS/HOMEEXPTS.html>
www.inquiryinaction.org/classroomactivities/
www.experiland.com/
2. www.education.wisc.edu/ccbc/books/detailListBooks.asp?idBookLists=76
www.readingrockets.org/article/42329/

TECHNOLOGY

3. www.neok12.com/How-It-Works.htm
4. www.geocaching.com

ENGINEERING

5. www.smithsonianmag.com/travel/destination-hunter/north-america/united-states/east/washington-dc/washingtondc-landmarks-points-of-interest.html?c=y&page=1
6. www.uspto.gov/ (patent search)

MATHEMATICS

7. http://www.ehow.com/how_5081792_teach-kids-read-maps.html
www.travelmath.com/cost-of-driving/
8. <http://pinterest.com/kfincincy/geometry-art-ideas/>
www.ehow.com/list_7219668_geometric-art-activities.html