

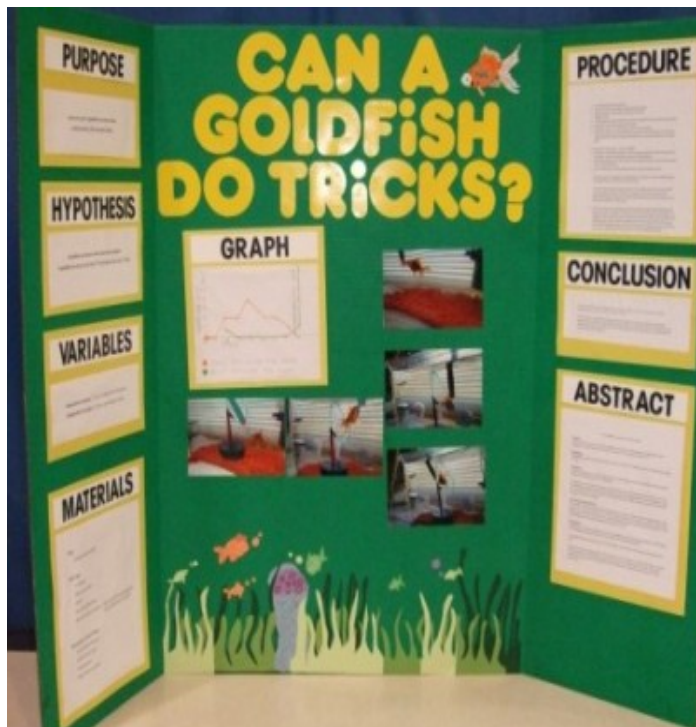
Dear Parents/Guardians,

All 3rd, 4th, and 5th grade students will be completing a Science project. This is a graded assignment. It will be a Science grade. Support to complete this project will be given during their STEAM classes over a five-week time span with Mrs. Oliver. The experiment itself or creation of a diagram, diorama, or model needs to be done at home.

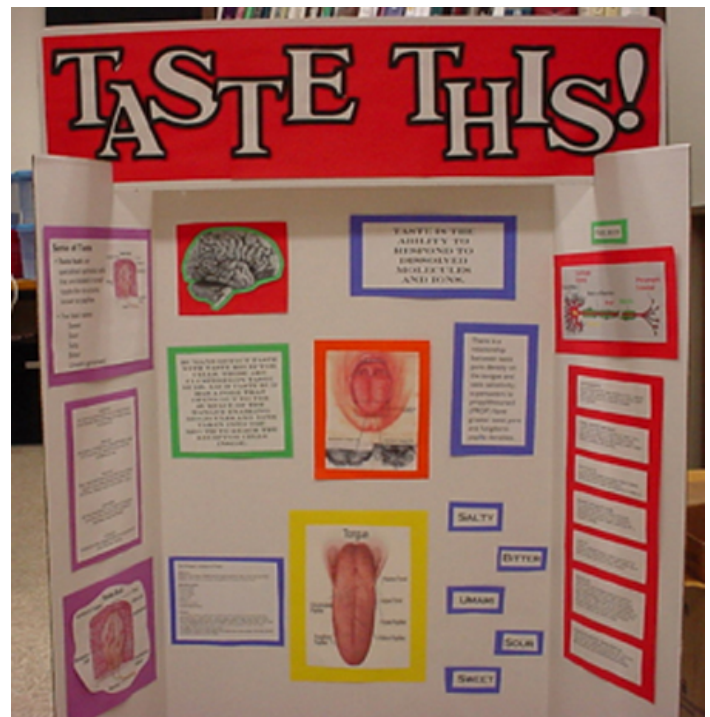
The attached calendar will explain in further detail what will be done in school and what your child is responsible for at home. Each student has a month to conduct an experiment or research a topic. It is suggested to take pictures along the way or have visual aids to support a presentation board. Trifold poster boards have been purchased in bulk and will cost \$1 if your child would like to buy one at school; or you may purchase a board and supplies on your own if you wish. Mrs. Oliver will be keeping track of the topic your child chooses. This is to discourage repeat projects and allow students to have original ideas.

There are two types of projects.

Conducting an Experiment



Explaining the how or why behind a Science Topic



Presentation board and projects will be due in April

K, 1st, 2nd, and 3rd grade- April 15th
4th grade- April 16th
5th grade- April 17th

Any fragile or oversized projects can be brought to Level Green during school hours or

April 17th from 6:30-7:30pm.

Please keep in mind that the work should be done primarily by the student. This includes typing, writing, and decorating the boards. The student should explain their work in their own words and be able to talk easily about their work. There are exceptions to this such as using a chemical, heat source, or tools that require adult help.

The graded rubric is as followed:

Project reflects child's curiosity, investigation, and participation	5	4	3	2	1		
Clear hypothesis or research topic	5	4	3	2	1		
Procedure is listed or detailed explanation	5	4	3	2	1		
Project includes visual aids; pictures, diagrams, models, etc	5	4	3	2	1		
Presentation is well organized and information is clear	5	4	3	2	1		
Overall presentation is neat, creative, error free	5	4	3	2	1		
							Total points: _____

Any late assignments will be deducted 2 points per day.

Level Green students have STEAM class once a week, where they are exposed to conducting and carrying out experiments. Therefore, we want to extend their experience to the Science Fair. The students have the opportunity to apply what they have been practicing and learning. Completing a project is required for 3-5th grade. **The Science Fair Night is an optional event.** Any student that attends the night of the Science Fair will be given **5 bonus points!** Entering a project in the fair is encouraged but optional for grades K-2.

Thank you for supporting our STEAM initiative here at Level Green.
Any questions or concerns please contact:

STEAM teacher-
Science Fair Night-

Mrs. Oliver- olivers@penntrafford.org
PTO representatives- Shawna Burger and Christie Armao

Science Fair Schedule

2020

Monday	Tuesday	Wednesday	Thursday	Friday
MARCH 2	3	4	5	6
Students will spend STEAM class researching and picking a Science project topic/experiment. Students will share project topic with parents and commit to a project by next week.				
9	10	11	12	13
Students will spend STEAM class typing out two sections (i.e. the materials and steps for their experiment) Students will use their school Google account to save all work. Students may purchase a white trifold board from Mrs. Oliver for \$1. AT HOME: STUDENTS ARE CONDUCTING THEIR EXPERIMENT OR RESEARCHING THE TOPIC AT HOME.				
16	17	18	19	20
Students will spend STEAM class typing out two sections (i.e. titles, data tables, drawing) for their presentation board. Students will use their school Google account to save all work. Students may purchase a white trifold board from Mrs. Oliver for \$1. AT HOME: STUDENTS ARE CONDUCTING THEIR EXPERIMENT OR RESEARCHING THE TOPIC AT HOME.				
23	24	25	26	27
Students will spend STEAM class completing all typing for their presentation board. Students will use their school Google account to save all work. Please purchase a board from Mrs. Oliver or send your child to school with a board. AT HOME: STUDENTS NEED TO HAVE THE EXPERIMENT COMPLETE TO WRAP UP THEIR PROJECT. TAKE PICTURES IF POSSIBLE.				
APRIL 30	31	1	2	3
Students will spend STEAM class putting their boards together. This includes any typed information or pictures taken at home. Supplies such as paper, glue, etc will be provided but you may send additional supplies. AT HOME: BRING IN TRIFOLD BOARD TO SCHOOL OR ASSEMBLE AT HOME. DUE AFTER SPRING BREAK!				
K, 1st, 2nd, and 3rd grade projects due Wednesday, April 15th 4th grade projects due Thursday, April 16th 5th grade projects due Friday, April 17th				

After school project drop off- April 17th from 6:30- 7:30pm
Science Fair Night- April 30th from 6:00- 8:00pm

Science Fair Project Topics!



Cool resources:

<https://www.sciencebuddies.org/science-fair-projects>

<http://eisforexplore.blogspot.com>

Youtube Channels : [Sick Science](#) and [The Spangler Effect](#)

Project Topic ideas:

Periscope	Reflexes
Microscopes	Laboratory equipment/uses
Surface tension	Medical tools
Electrical circuit	Germes
Human skeleton	Weather map
Diapers	Optical illusions
Drones	Blood sugar
Tropical rainforest	Taste buds
Bifocal glasses	Baleen Whale
Light bulb	Heart
Greenhouse	Density
Water filtration	Bubbles
Change in matter	Magnets
3-D glasses	Helmets
3-D printers	Types of energy
Prism/rainbow	Lightning
Oil spills	Simple machines
Astronomy	eclipse
Mimicry	Rocks
Minerals	entomology
Cave systems	sundial
Tree rings	phases of the moon
Fireworks	Brain
Lungs	Perspiration
Skin layers	Prosthetics
Camouflage of animals in seasons	Dyeing with natural objects
Bubble gum	Genetics
Sound waves	Earpods
Mirrors	Heart rate with caffeine

My Project: _____