

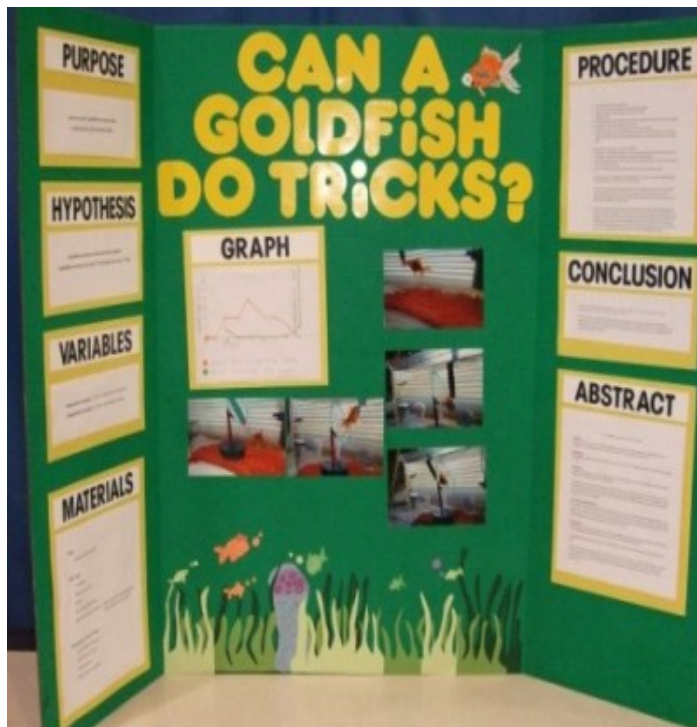
Dear Parents/Guardians,

All 3rd, 4th, and 5th grade students will be completing a Science project. This is a graded assignment. It will be a 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.

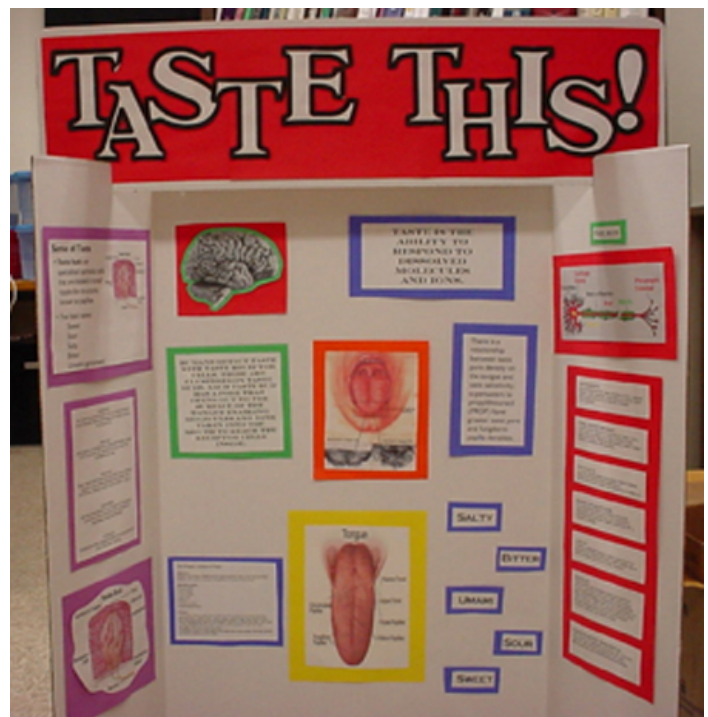
The attached calendar will explain in further detail what will be done in school and what your child is responsible for at home. Each student has a month to conduct an experiment or research a topic. It is suggested to take pictures along the way or have visual aids to support a presentation board. Trifold 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

3rd grade- April 10
4th grade- April 11
5th grade- April 12

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

April 11th 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

2019

Monday	Tuesday	Wednesday	Thursday	Friday
MARCH 4	5	6	7	8
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.				
11	12	13	14	15
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.				
18	19	20	21	22
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.				
25	26	27	28	29
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 1	2	3	4	5
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 NEXT WEEK!				
8	9	10	11	12
3rd grade projects due Wednesday, April 10th 4th grade projects due Thursday, April 11th 5th grade projects due Friday, April 12th				

After school project drop off- April 11th from 6:30- 7:30pm
Science Fair Night- April 30th from 6:00- 8:00pm

Science Fair Project Topics!

Cool resources:

<http://pbskids.org/zoom/activities/sci/>

<http://eisforexplore.blogspot.com>

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



Project Topic ideas:

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

My Project: _____