

# Northeast Middle School Teachers and NEPTO

## Invite You to our Title 1



Parent involvement is directly linked to student achievement. Student success depends largely on collaboration between educators and parents. We welcome you to join us as Northeast teachers and members of the community model STEAM concepts at this interactive night of activities and presentations.

***Refreshments will be served! Great raffle prizes, including IronPigs and Phantoms tickets, and a special appearance by the Phantoms mascot will top off this educational evening!!***

***All parents will receive a certificate for a 1/2 POUND for their student(s) to put towards a PROUD Pound!***

**WHO: All Northeast Families (Parents, Northeast Students, and School-Aged Siblings)**

**WHAT: A hands-on learning experience in Earth, Physical, and Biological Sciences, Technology, Engineering, the Arts, and Mathematics**

**WHEN: Wednesday, March 22, 2017 - 5:30-7:30 PM**

**WHERE: Northeast Cafeteria, Gym, and Various First Floor Classrooms**

Title I is a federally funded program designed as a supplemental program to ensure that all children have equitable access to quality educational opportunities. The financial assistance provided through Title I enables schools to better meet the academic needs of children in schools with high poverty levels. Through Title I programs, students receive supplemental instruction in reading, language arts, and mathematics with the goal of their reaching proficiency in academic achievement standards and state assessments.

***NOTE: You are welcome to attend even if you do not return the slip below, but we would appreciate knowing how many people to expect. The entire family is welcome! For elementary siblings, please denote school instead of homeroom teacher.***

*---Please complete and return the slip below to your child's homeroom teacher by Wednesday, March 15, 2017----*

### **NEMS FAMILY STEAM NIGHT RSVP FORM - please print**

Parent Name(s) \_\_\_\_\_  
Email Address \_\_\_\_\_  
Name of Child Attending \_\_\_\_\_ HR Teacher/School \_\_\_\_\_  
Name of Child Attending \_\_\_\_\_ HR Teacher/School \_\_\_\_\_  
Name of Child Attending \_\_\_\_\_ HR Teacher/School \_\_\_\_\_

# Check out all of the exciting things you can enjoy at this year's STEAM Night!

**Time to Build with Spaghetti** - Use your creativity and engineering skills! You will be given some supplies, including spaghetti noodles, to build the tallest free-standing structure possible. There will be a time limit and you will compete against others. Are you up for the challenge?

**Strategic Games** - Who knew that playing a game with friends can boost your cognition? Playing a strategic board game helps us to increase focus, problem-solve, and think creatively. Board games also foster positive social skills such as taking turns, following rules, and eagerly awaiting positive gratification. Come join us for a time of challenge and excitement as we take a few turns around the board!

**Robotics** - Students will get the opportunity to build basic circuits and try their hand at building an autonomous robot. Advanced robotics students will also be on hand to demonstrate circuit board soldering and answer questions about middle school robotics.

**Google Draw** - Shapes, Color, and Creativity! Use Google Draw to create your own picture with a bit of geometry sprinkled in.

**"Painting with a Twist"** - Create a visual interpretation of the poem "Gold" by Pat Mora using water colors/pastels. Participants will leave with their work of art!

**Balloon Rockets** - How does the volume of air in a balloon affect the distance it travels? Find out by creating and testing your own balloon rocket. Participants will experiment with their balloon rocket to observe the distance traveled each time the size of the balloon is changed, then draw conclusions from the data collected.

**It's Not Rocket Science... Or is it?** Este Rocket Club - How to build and launch model Este Rockets. You'll learn the instructions, technical terms, materials, kits, engines, and launching systems necessary to launch your own Este Rocket.

**Origami** - Come learn the art and mathematics behind folding paper. Ms. Troutman will share techniques for making art with just a single piece of paper, and you can walk (or fly) away with your own paper crane!

**The Chemistry of Ceramics** - The art of ceramics relies heavily on the science of chemistry throughout the creation of clay projects. Find out how air molecules, water, heat, the organic compound of clay and how it changes, and the ingredients in glaze work together to create beautiful art.

**Guitars and Plots** - Want to learn how to play chords on the guitar? Using this instrument's x and y axes, you can learn to plot your fingers on the fretboard and play a song or two! Rock on!

**"Crime Scene Investigation: The Code of Fingerprinting"** - Dust for your own fingerprints, hear how the FBI uses fingerprint matching in solving crimes, and investigate different fingerprint patterns.

**Catapults** - Students and parents will use isolated steps of the design process to design and create a small catapult using limited resources and materials. Your catapult will need to be specifically designed to accomplish one of two tasks - accuracy or distance. For accuracy, groups will have to design a catapult/launcher to send a ping pong ball ten feet into a Rubbermaid container. For the distance portion, your launch will be measured from the launch to where the ball first makes contact with the ground. We look forward to your creativity and design ideas!

**Air Products** - Learn the powers of liquid nitrogen in this exciting demonstration. You can even try some instantly-made ice cream!

**Pocono Wildlife Rehab Center** - See live reptiles, birds, and mammals!

**Game Commission** - Wildlife Forensics - Learn about how park rangers can determine secrets of unliving animals.

**PA Dept of Conservation and Natural Resources** - Learn about watershed health and view critters under microscopes.

**Banana Factory** - Design a bracelet using code.

**Cops 'N Kids** - Take home a free book!

**Video Game Design** - Learn how to create your own game, and play a sample of another online game.

**Liberty High School's Project Lead the Way** - Watch and learn as a Liberty High School student take an EKG, heart rate, and blood