

General Nash Elementary School

**Discover and Explore
Science, Technology, Engineering and Math**

Engineering For Kids brings science, technology, engineering and math (STEM), to kids in a fun and challenging way through classes, camps, clubs and parties. We are proud to inspire children to build on their natural curiosity by teaching engineering concepts through hands-on learning. Our programs are taught by trained instructors who will deliver a curriculum aimed at sparking a lifelong passion for learning.

Parent's Night Out Engineering Program! (Limited to 24 students)

Our fun-filled engineering program is designed to engage young minds in hands-on activities where each child will learn fundamental concepts from multiple engineering disciplines. While parents are enjoying a well-deserved night out, their future engineers will be hard at work building bridges (civil) and making water ice (chemical/industrial)!

Friday April 17th from 6 - 9pm*

**Program Fee: \$39 - Includes pizza and juice
(*1 Hour extension to 10pm for an
additional \$10 fee.)**

Please make checks payable to **General Nash Home & School**, and return to the office in an envelope marked **Engineering For Kids**.



**Phone: (215) 559-9233 | Email: greaterphila@engineeringforkids.com
www.EngineeringForKids.com**

ORGAN FUNCTION GRINDER

Make math the *music* of your mind!

STEP RIGHT UP!

Insert a number ticket into the Organ Function Grinder, set the three dials, then turn the crank to see how the function changes your number. Can you hear the changes in the music, too?

HERE'S THE MATH

A "function" is one of the most fundamental concepts in mathematics. Functions change each input value (called "x" in this exhibit) to some output value (called "y" and "f(x)" here) using a rule. In this case three rules set with the dials. Does the order in which you set the three dials matter?

Ring of FIRE

Illuminate the secret shapes within!

STEP RIGHT UP!

Hold one of the shapes inside the ring to see what happens. Can you rotate the cylinder to find a rectangle? What surprising shape can you find in the triangular pyramid? Can you find the hexagon hiding within the cube? Which two solids have the rounded cross sections shown in the diagram?



HERE'S THE MATH

When you intersect a three-dimensional solid with a plane, you get a two-dimensional shape, called a "cross section." These shapes can vary a great deal, even for the same solid. For example, the cone has both a circle and a triangle as cross sections. Slice the corner of the cube through the light to find a pentagon, an irregular hexagon, and a heptagon. What other shapes can you find?

NUMBER LINE TIGHTROPE!

Pursue the Patterns!

STEP RIGHT UP!

Explore the number line to figure out the meaning of the hanging shapes. Each shape represents a different number family. Do you know certain numbers have a square hanging from them? Can you figure out the meanings of the other shapes?

Number is the ruler of forms and ideas.
—Pythagoras



HERE'S THE MATH

Some numbers that we've highlighted, like pi, are unique. Others come in families, like the Fibonacci numbers. There's a way to us to highlight all of the interesting numbers and families—some are always there to discover. In fact, the mathematicians first of number patterns includes over 150 of different families, with new ones added every day. Which number families do you know?

SIX HANDS-ON EXHIBITS

ROLLER GRAPHICOASTER

The fastest ride on the midway!

STEP RIGHT UP!

Move the track of the Roller Graphicoaster to make the fastest roller coaster ride. Is the fastest track a straight line? Test out your prediction, then adjust the track to see if you can make it even faster.



HERE'S THE MATH

The problem of finding the fastest track for an object pulled by gravity has interested mathematicians since Galileo tried—and failed—to solve it in 1638. The first solution had to wait for the development of the calculus of variations, an entirely new branch of mathematics, almost sixty years later! But in mathematics, there's always more than one way to roll a coaster—new solutions to this problem are still being written, one as recently as 2006.

MILES of TILES



STEP RIGHT UP!

Can you cover the wall with no white showing through? Use the shapes—triangles, squares, hexagons, rhombuses, and monkeys—to make a pattern on the wall. If you can make one with no gaps, that's a tessellation! Try fitting both types of rhombuses together. Can you always match up all the markings?



HERE'S THE MATH

Many combinations of regular shapes can cover space, or tessellate. But how about those monkeys? Since their shape is so irregular, it's a wonder that they can fit space. But the monkeys interlock in groups of six. On the other hand, the rhombus pattern shown here, called the Penrose tiling, can be extended forever without repeating.

FUNNY FACE

Give yourself a lift with math!

STEP RIGHT UP!

Smile for the camera! Do you want an instant change? After taking a picture, the Funny Face computer will change your face using math! Adjust the slider below the picture to adjust your face even.



HERE'S THE MATH

Modern computers use complex mathematics to incorporate special effects in photographs. But surprisingly simple formulas can also lead to some fun distortions. What happens to your picture when you change the equations behind each picture?

Fun for every grade level



Don't miss this one-time opportunity

ALL NORTH PENN SCHOOL DISTRICT STUDENTS ARE INVITED TO ATTEND ONE OF THE MUSEUM OF MATH SESSIONS TO ENJOY SIX HANDS-ON EXHIBITS.

SATURDAY

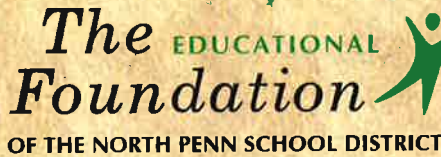
II

APRIL

SESSION I	8 AM - 9 AM
SESSION II	9 AM - 10AM
SESSION III	10 AM - 11 AM
SESSION IV	11 AM - NOON
SESSION V	NOON - 1 PM
SESSION VI	1 PM - 2PM
SESSION VII	2 PM - 3PM
SESSION VIII	3 PM - 4PM

**PENNBROOK MIDDLE SCHOOL GYM
1201 NORTH WALES RD.**

BROUGHT TO YOU BY:



The Math Midway 2 Go is a production of the National Museum of Mathematics, America's only Museum dedicated to the wonders of mathematics. Please visit momath.org for more information.

Students enrolled in North Penn School District may sign up for one of the hour-long hands-on programs brought to you by The Educational Foundation of the North Penn School District and Math Midway 2Go, a program offered through The Museum of Mathematics in New York City. Space for each session is limited to 40 students. Sign up today by visiting www.northpenncep.org or returning the form below to ESU 11, 100 E. Hancock St., Lansdale, PA 19446. One parent may accompany students in grades Kindergarten - 3rd. **Registration ends April 1, 2015.** Preschoolers cannot be accommodated due to the rigor of the math content presented. Preregistration is required. Walk-ins will be allowed only if space permits.

Student Name: _____ Age: _____ Birthdate: _____

Address: _____

School: _____ Grade: _____

Session Attending (circle one: I II III IV V VI VII VIII)

Parent Name: _____ Phone Number: _____



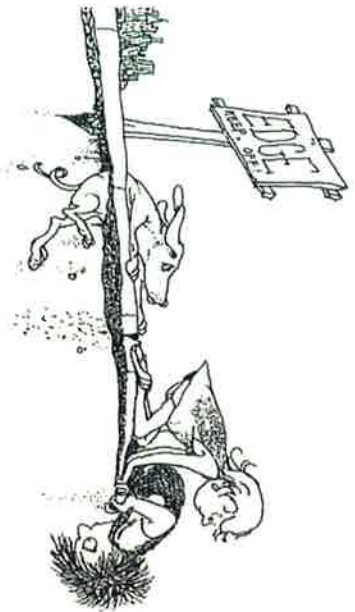
SAVE THE DATE for SPRING ZING

DATE: APRIL 24, 2015

Spring is around the corner, so let's celebrate!

Join us at Nash for snacking and dancing, so please save the date!





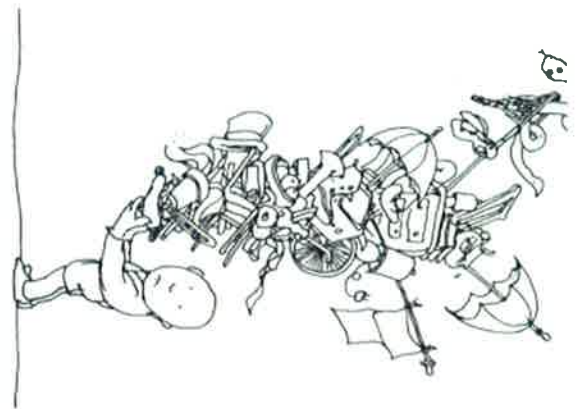
Save the date!

General Nash
LITERACY FESTIVAL



- ❖ *School wide writing and art display*
- ❖ *Spring Book Fair*

Friday, May 8th
6:30pm-8:30pm



Featuring a presentation
& book signing from local
authors/illustrators
Lisa & Robert Papp
7:30pm



Coordinating Council Needs Your Help!

Coordinating Council is in need of board members for the school year 2015/2016. Open positions are Vice-President, Treasurer, Correspondence Secretary and Recording Secretary.

What is Coordinating Council?

It is a forum for parents of the North Penn School District to exchange ideas and to promote an ongoing relationship between the schools administration, board & community.

Executive Board

The President presides at all meetings of the council, maintains council archives & performs all other duties usually pertaining to the office. The Vice-president assists the president in scheduling speakers and meetings. The recording secretary takes notes at the monthly CC meetings. The correspondence secretary checks the mail at the ESC & notifies all members of upcoming meetings. The treasurer has custody of all funds of the council; keeps a full and accurate account of receipts & expenditures; makes disbursements as authorized by another officer; provides a copy of the monthly bank statement & a treasurer's report to the executive board. The treasurer shall be responsible for collecting semi-annual reports from all chapter members.

The Importance of Coordinating Council

The most practical benefit of being a part of Coordinating Council is the group tax exempt status/ID and a professional bookkeeper to file our taxes. Parent groups without a tax exempt status and ID may have difficulty raising funds for their programs, especially via direct donations as they would not be able to claim they are a tax-exempt organization. Without a functioning Coordinating Council, there is no group tax status and each parent organization will need to apply for their own tax ID status, as well as file their own taxes each year with the IRS. Without a board, there is no Coordinating Council.

Please consider taking on one of these board positions, or talking with your organization members about becoming more involved with CC. Contact any one of the CC board members for more info: joani29@comcast.net, maggiearriaga@comcast.net, caitieclark@gmail.com, anged1970@gmail.com, chassityruby@yahoo.com

Visit Coordinating Council at: <http://www.npenn.org/Domain/72>

NPSD Extended School Care Summer Camp 2015

Session I
June 15*-June 19
Wacky Weather

Session II
June 22-June 26
Fun & Fitness

Session III
June 29- July 3**
Cartoon Mania

Session IV
July 6-July 10
Under the Big Top

SUMMER

CAMP

2015

Session VIII
Aug 3-Aug 7
Aloha!!

Session V
July 13-July 17
Wild West

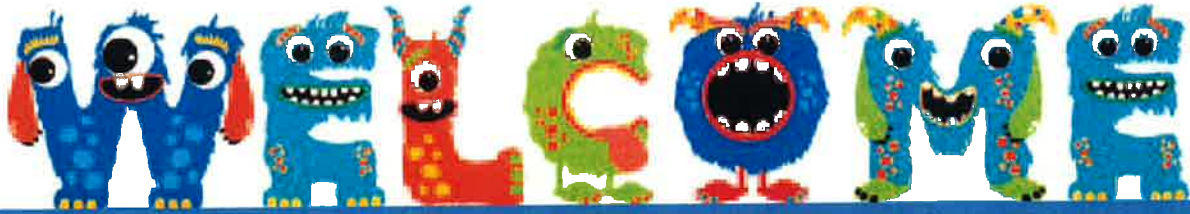
Session VII
July 27-July 31
Animal Planet

Session VI
July 20-July 24
Show Your Talent

- Ages:** For children completing Kindergarten through 6th grade
- Locations:** Bridle Path Elementary School, 200 Bridle Path Rd., Lansdale
Gwyn Nor Elementary School, 139 Hancock Rd., North Wales
- Dates:** June 15, 2015 - August 7, 2015
- Times:** 7:00 a.m. - 6:00 p.m., Monday - Friday
- Cost:** \$245 per session (10% sibling discount available)
- Registration:** Begins on March 16th from 4:00 p.m. - 7:30 p.m. and thereafter, on Monday - Friday
from 8:00 a.m. - 3:30 p.m., at the Educational Services Center, 401 E. Hancock St., Lansdale.



*The first day of camp is subject to change based on extensions in the North Penn School District calendar. **There will be no camp on Friday, July 3, 2015. A non-refundable deposit of \$50 per session will be required at the time of registration. The weekly fee is \$245. The balance due will be required one week prior to your child's attendance at camp. All required forms must be returned to the North Penn Extended School Care Office, no later than April 13th. For more information, please call the Extended School Care Office at 215-853-1039 or visit us online at www.npenn.org. The North Penn Extended School Care Program is an equal opportunity child care provider.



NORTH PENN CENTRALIZED KINDERGARTEN REGISTRATION 2015

NPSD Registration Office: www.npenn.org 215-853-1097

WHAT: Centralized Kindergarten Registration for students entering Kindergarten in September 2015. Students attending school in NPSD **must be 5 years old on or before September 15, 2015.**

WHEN: Starting January 19, 2015, schedule an appointment to register by visiting our website at www.npenn.org and clicking "Quick Links" or call 215-853-1097. Registration documents are available online at www.npenn.org. **PLEASE PRINT AND COMPLETE THE REQUIRED KINDERGARTEN DOCUMENTS BEFORE YOUR APPOINTMENT.**

WHERE: Centralized Kindergarten Registration is held at the North Penn School District Educational Services Center, located at 401 E. Hancock Street, Lansdale, PA 19446.

Appointment Dates	Appointment Times
March 23, 2015	8 a.m. – 4 p.m. & 5 p.m. – 8 p.m.
March 24, 2015	8 a.m. – 4 p.m. & 5 p.m. – 8 p.m.
March 25, 2015	8 a.m. – 4 p.m. & 5 p.m. – 8 p.m.
March 26, 2015	8 a.m. – 4 p.m. & 5 p.m. – 8 p.m.
March 27, 2015	8 a.m. – 4 p.m.
March 30, 2015	8 a.m. – 4 p.m. & 5 p.m. – 8 p.m.
March 31, 2015	8 a.m. – 4 p.m. & 5 p.m. – 8 p.m.
April 7, 2015	8 a.m. – 4 p.m.
April 8, 2015	8 a.m. – 4 p.m.
April 9, 2015	8 a.m. – 4 p.m.

WHAT DO YOU NEED TO BRING THE DAY OF YOUR APPOINTMENT?

- Proof of residency in the NPSD.** A current utility bill, rental agreement or lease, driver's license or other official document showing parent/legal guardian's name and current address.
- Proof of birth.** Parent/legal guardian must bring a copy of the child's birth certificate, church record or physician's statement to verify age. Student must be 5 years of age by September 15, 2015.
- Proof of current immunizations.** Written documentation (month, day and year) from a hospital or clinic, physician or previous school immunization record which verifies that your child has received the following immunizations:

Grade	DPT, DT Td	MMR	Hepatitis B	Polio	History of Chicken Pox or Varicella
K-12	4 doses – 1 dose on or after 4 th birthday	2	3	3	2

- Your incoming Kindergarten student** as he/she will be engaging in many fun kindergarten readiness activities, such as: coloring, shape identification, name writing, etc.

