



DISCOVERY SUMMER 2010

Registration will be entirely by lottery. Come at your convenience June 14th – 20th. Sorry, no phone registration. You will be notified by e-mail, and lists will be posted at the Library. Most programs do NOT require registration.

Plainsboro Public Library

(609) 275-2897

www.lmxac.org/plainsboro

PlainsboroLibraryNews.blogspot.com

Monday, July 5 MATHEMANIA! Kick off the Summer with a day full of Math! Appropriate challenges for everyone from pre-k to senior citizen with a terrific chance for medals, tees, trophies, pencils, balloons AND prize money! **See separate flyer for times and details.**

Tuesday, July 6 12pm MICROSCOPE WORLD Drop in during the hour to view phenomena through our Intel microscopes! Bring a bug, flower, salt crystal OR the yuckiest water sample (from a puddle? from Plainsboro Pond?) and peek into the micro-world. *For kids 6-8*

1pm POETRY + POPULAR POET ELOISE BRUCE = the intersection of language and math. Join the group and let your imagination soar. No previous experience necessary. *For kids 9 & up.*

2:15pm BASKETRY: MATH RULES BOOKMARK (Registration Required) Carol Quick introduces students to traditional basketry using readily available materials which will be measured, cut and woven to make a unique bookmark. *For kids 6-8 with adult partner.*

4-6pm STARLAB (Registration Required) Plainsboro Library's Star-Lab makes it's debut! Climb through the tunnel to view millions of stars and hear the legends they have inspired! Sign up for a twenty-minute time slot, running every hour on the half-hour.

7pm ENDGAME STUMPERS Chess enthusiasts are encouraged to drop by the Science Center to match wits with each other in quick finish endgame challenges. Can you get to checkmate in the least moves? Then relax with a rousing giant chess game on the terrace. Knowledge of chess required. *For adults and kids 9 & up.*

Wednesday, July 7 11:30am EMBROIDERERS' GUILD BOOK-MARKS (Registration Required) Ruth Levy and the Princeton Chapter of the Embroiderers' Guild of America will be holding a 4-week, hands-on program: "A Stitch in Time Saves Nine!" No previous experience required. *For kids 8-12.*

1:15pm IMPROVMANIA TOO (Registration Required) Join Emily Vorp for your choice of creative drama sessions. Jump into a new math story each week! *For kids 6-8.*

3pm MATH CLUB (Registration Required) This week, answer a short series of questions and then use your results to make a unique picture to be displayed in the library. What does this have to do with math? Come find out! *For kids 6-8.*

4:30pm IMPROVMANIA (Registration Required) Under the direction

of Emily Vorp, actors will create and rehearse a special tribute to celebrate the birthdays of several mathematicians. Their performance will be at our annual Birthday Bash on July 28th. *For kids 9 & up.*

7pm ARTFUL CONVERSATIONS: MUSIC & MATH Join us for an exciting evening of music and discussion with members of the Bravura Philharmonic Orchestra. The orchestra was founded under the direction of the internationally-renowned conductor and Steinway artist Chiu-Tze Lin.

Thursday, July 8 11:30am NATURE CREATIONS Come and explore the outdoors at the Plainsboro Preserve! Join us for an 11am Storytime and stay to explore all of the mathematics you can find in nature! *All ages welcome.*

1pm MANDALA/RANGOLI WORKSHOP The words Mandala and Rangoli are derived from Indian Sanskrit, and mean circle, wholeness, and the structure of life. With help from Neera Kothary and Carol Feinstein, we will be making four different types, based on: nature, animals, healing and anything that inspires you! *Children under the age of 8 must be accompanied by an adult.*

1 & 3pm SCIENCE SAFARI: PRINCETON PLASMA PHYSICS LABORATORY (Registration Required) A perfect chance to see math and science in action, as researchers explore ways to make fusion a safe and abundant energy source for the future! Directions available in the Children's Room.

7pm CAN CAN YOU YOU KEN KEN? Come learn and play this math logic game. It's similar to Sudoku, but with a new mathematical twist! *For adults and kids 10 & up.*

Friday, July 9 1pm SOLARBOTS (Please register for one Friday session only. Class repeats July 16, 23 & 30) Enjoy a quick introduction to Lego Mindstorm Robotics by way of using DC and Solar Power! Calculate speed and distance for precision runs. *For kids 9 & up. No experience needed.*

2:30pm BAKING COUNTS! (Registration Required) Join Colleen Hackett for an hour and a half filled with measuring, baking and reading! Come hungry! *For kids 6-8.*

4pm INVENTION CHALLENGE I: TUMBLING TOWERS! Match wits with other contestants as you build a tower that can withstand both wind and gravity. Materials provided. Cash awards for the top three engineers.

6 pm sharp! **THEATRE SAFARI: MOON OVER BUFFALO AT WASHINGTON CROSSING OPEN AIR THEATRE** Join us for an evening of theatre under the stars! *Moon Over Buffalo* is a zany musical farce which will be sure to tickle the funny bone of old and young alike! Ride along with us on a bus to the park or take your own car. Make sure to pack a picnic supper! Tickets (\$8) and map available at reference desk. Sorry, no returns.

Website: <http://dpacatoat.com/mainstage.html>

7 pm **FRIDAY NIGHT LIVE: CHINESE KNOT MAKING** (*Registration Required*) Learn the super skill of Chinese Knot Making with experts Allison and Grace Kwok in this twilight workshop. *Ages 9 -14.*

Monday, July 12 10:15am FOR THE BIRDS (*Registration Required*) Join Dr. Frances Reichl, popular scientist/professor/author as she returns to explore the world of birds. The week-long seminar repeats three times. Syllabus: Mon Anatomy; Tu What bird is that?; Wed Time to marry!; Thu Family!; Fri Where to winter? All three sessions may compete for the 2010 Avian Architecture Trophy. *For kids 8-12.*

12pm **TEXTILE DESIGN** (*Registration Required*) What do curtains, clothes, and gift wrap all have in common? Patterns, symmetry, repetition and mirrored images! Yes, math can be found in textile designs! Join Carol Feinstein as she teaches you how to create, measure, and paint your own textile designs. *For adults and kids 8 & up.*

1pm **ORIGAMI ANGLES** Shapes, symmetry, and angles galore! Allison and Grace Kwok present an open workshop in the art of origami. Come back in the fold! *Please bring along a couple of plastic shopping bags and rescue some colorful magazine paper or gift wrap from the recycling bin!*

4pm **ARTS FESTIVAL A-TEAM** Dazzle a page in symmetry and shapes, creating beautiful decorative patterns with artist extraordinaire Tatiana Sougakova. Make 3 - leave 2 for the Arts Festival and take one home! Dress for mess! *Fun for all ages!*

7pm **FAMILY MATH NIGHT: REFLECTION BATTLE** Bring the whole family to our weekly math nights! This week, challenge your family to a game of reflection battle. Be the first player to hit all of your opponent's asteroids before they hit yours!

Tuesday, July 13 10:15am FOR THE BIRDS (*Registration Required*) See Monday, July 12th for program details. *For kids 8-12.*

12pm **MICROSCOPE WORLD** Drop in during the hour to view phenomena through our Intel microscopes! Bring a bug, flower, salt crystal OR the yuckiest water sample (from a puddle? from Plainsboro Pond?) and peek into the micro-world. *For kids 6-8.*

1pm **POETRY + POPULAR POET ELOISE BRUCE** = the intersection of language and math. Join the group and let your imagination soar. No previous experience necessary. *For kids 9 & up.*

2:15pm **BASKET WEAVING: COUNT ON MATH BASKET** (*Registration Required*) Join Carol Quick for this three-day workshop where you will choose either a square, oval or round base on which to weave a FUNctional basket with some mathematical surprises woven in. Dress for mess! *For kids 9-12.*

4-6pm **STARLAB** (*Registration Required*) Plainsboro Library's Starlab makes it's debut! Climb through the tunnel to view millions of stars and hear the legends they have inspired! Sign up for a twenty-minute time slot, running every hour on the half-hour.

7pm **SEVENTEENTH ANNUAL EGG DROPPING COMPETITION** Engineer the perfect device to protect a raw egg when dropped from heights of six feet and higher. Rules and official kits of materials available in the library starting July 5th.

Wednesday, July 14 10:15am FOR THE BIRDS (*Registration Required*) See Monday, July 12th for program details. *For kids 8-12.*

11:30am **EMBROIDERERS' GUILD** (*Registration Required*) A continuation of the previous week's session on stitching! See July 7th for details.

STORYTIME

STORIES ALIVE!
IS FOR KIDS AND PARENTS OF ALL AGES

Monday through Saturday from July 5 through July 31

No registration is necessary, so come as often as you like!

EACH DAY HAS IT'S OWN THEME:

MONDAYS: 11:00 AM ACT I (LIBRARY)

TUESDAYS: 11:00 AM SCIENCE ROCKS WITH WEATHER (LIBRARY)

WEDNESDAYS: 11:00 AM ART COUNTS (LIBRARY)

THURSDAYS: 11:00 AM NATURE 1-2-3 (PLAINSBORO PRESERVE!)*

FRIDAYS: 11:00 AM MARCHING 1 BY 1! (LIBRARY)

AND AS ALWAYS,
SATURDAY STORIES AT 11:00!

** Stay after for "Nature Creations" at 11:30. Explore the Preserve and recreate what you see through visual art, drama, and movement.*

Directions available in the children's room.

12 pm **WE GOT THE BEAT! PERCUSSION EXTRAVAGANZA!** March on in and join in the drumming fun! Try out different drums and other percussion instruments and see if you can keep the beat with our experts! *All Ages.*

1:15pm **IMPROVMANIA TOO** (*Registration Required*) The second session in a set of four improv drama classes. See July 7th for details. *For kids 6-8.*

2:15pm **BASKET WEAVING: COUNT ON MATH BASKET** (*Registration Required*) A continuation of three-day workshop. See Tuesday, July 13 listing for details.

3pm **MATH CLUB: PETALS AROUND THE ROSE** (*Registration Required*) The name of the game is Petals Around the Rose. The name of the game is important! Join us for a series of logic based games and then design a logic game of your own! *For kids 6-8.*

4:30pm **IMPROVMANIA** (*Registration Required*) The second session in a four-week drama class. See July 7th for details.

7pm **ARTFUL CONVERSATIONS: ORIGAMI MATH** Join origami experts Allison and Grace Kwok in this enlightening tie between math and origami. A short discussion followed by a hands-on origami activity. *Teens and adults only.*

Thursday, July 15 10:15am FOR THE BIRDS (*Registration Required*) See Monday, July 12th for program details. *For kids 8-12.*

11:30am **NATURE CREATIONS** Come and explore the outdoors at the Plainsboro Preserve! Join us for an 11am Storytime and stay for a half hour to explore all of the mathematics you can find in nature! *All ages welcome.*

1pm **MANDALA/RANGOLI WORKSHOP** See Thursday, July 8th for details.

2:15pm **BASKET WEAVING: COUNT ON MATH BASKET** (*Registration Required*) A continuation of three-day workshop. See Tuesday, July 13th listing for details.

3pm **BANKING SAFARI** (*Registration Required*) Where does all the vortex money go? It goes to support our all-day Sunday hours! But the first stop is "to the bank!" First Constitution Bank will give us a behind the scenes tour as we deliver our latest deposit! *For all ages.*

Friday, July 16 10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.
1pm SOLARBOTS (Registration Required) See Friday, July 9th for details. For kids 9 and up. No experience needed.
2:30pm BAKING COUNTS! (Registration Required) See Friday, July 9th for details. For kids 6-8.

4pm INVENTION CHALLENGE II: CRACKING THE CODE Discover cryptography and engineer a wheel to crack a specific code in order to win one of the 3 cash prizes!

7pm FRIDAY NIGHT LIVE: TETRIS-DINO (Registration Required) Help us put together a Tetris Puzzle that will dress our Science Center Dinosaur! Conclude the evening with a marvelous mathematic addition... marshmallows + chocolate + graham cracker = S'mores! Ages 9-14.

Monday, July 19 10am-4pm CANOEING ON PLAINSBORO POND (Registration Required) Reserve a time slot and enjoy the infinite pleasures of canoeing. Boats, life vests, and brief instructions provided by Boy Scout Troop 168. Launching from Maple Avenue entrance to park. Directions available at the Children's Desk. Children under 13 must be accompanied by an adult.

10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.

11am THE PLAINSBORO PUPPETEERS PRESENT THE ENORMOUS POTATO! Join us for the debut of our fabulous puppet theatre and count along as we discover just how many helpers the farmer will need to pull out the biggest potato in the world! After the show, learn how our resident puppet artist, Rachel Camporeale, created our puppets and then make one of your very own!

12pm TEXTILE DESIGN (Registration Required) See Monday, July 12th for details.

4pm ARTS FESTIVAL A-TEAM Create a dazzling portrait of your lucky number! Join Plainsboro artist and teacher Tamara Woronczuk in exploring ways to express the qualities of any number you like – in art. Make 3 – leave 2 for the Arts Festival, and take your lucky number home! Dress for a mess. Fun for all ages.

7pm FAMILY MATH NIGHT: TANGRAMS Bring the whole family to our weekly math nights! This week, learn the history of Tangrams and race against the clock to create Tangram designs.

Tuesday, July 20 10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.

12pm MICROSCOPE WORLD Drop in during the hour to view phenomena through our Intel microscopes! Bring a bug, flower, salt crystal OR the yuckiest water sample (from a puddle? from Plainsboro Pond?) and peek into the micro-world. For kids 6-8.

1pm POETRY + POPULAR POET ELOISE BRUCE = the intersection of language and math. Join the group and let your imagination soar. No previous experience necessary. For kids 9 & up.

4pm MONSTER PINATA: PART I Come one, come all! Help create our 2010 Plainsboro Library piñata, which will be part of the Monster Math summer celebration at our International Banquet on July 31st.

4-6pm STARLAB (Registration Required) Plainsboro Library's Starlab makes it's stellar debut! Climb through the tunnel to view millions of stars and hear the legends they have inspired! Sign up for a twenty-minute time slot, running every hour on the half-hour.

7pm ENDGAME STUMPERS Chess enthusiasts are encouraged to drop by the Science Center to match wits with each other in quick finish endgame challenges. Can you get to checkmate in the least moves? Then relax with a rousing giant chess game on the terrace. Knowledge of Chess required. For adults and kids 9 & up.

7pm ARE YOU FEELING LUCKY? Roll the dice, and cross your fingers! These games are full of math, strategy, and a LOT of luck! For adults and kids 8 & up.

Wednesday, July 21 10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.
11:30 am EMBROIDERERS' GUILD (Registration Required) A continuation of the previous week's session on stitching! See July 7th for details.

1:15pm IMPROV MANIA TOO (Registration Required) The second session in a set of four improv drama classes. See July 7th for details. For kids 6-8.

3pm MATH CLUB: BINGO! (Registration Required) Be the first to get 5 in a row in this math version of BINGO. For kids 6-8.

4:30pm IMPROV MANIA (Registration Required) The third session in a four-week drama class. See July 7th for details.

7pm ARTFUL CONVERSATIONS: PYTHAGORAS REVISITED! Artist and mathematician Stefanie Mandelbaum discusses harmony and balance in art, math and music! Informative talk followed by a hands-on session in mobile-making. Bring a calculator! Teens and adults only.

Thursday, July 22 10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.

11:30am NATURE CREATIONS Come and explore the outdoors at the Plainsboro Preserve! Join us for an 11am Storytime and stay to explore Math in Nature! All ages welcome.

1pm RANGOLI/MANDALA WORKSHOP See Thursday, July 8th for details.

7pm SPELLING BEE So you think you can spell? Then come and match wits with your neighbors in a spellbinding experience! Expect some mathematical terms to decipher! You might just win the t-r-o-p-h-y! For all ages!

Friday, July 23 10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.

11am THEATRE SAFARI PETER PAN AT PRINCETON SUMMER THEATRE It's off to Neverland for a delightful retelling of the classic story of the boy who wouldn't grow up! Join Peter as he crosses swords with the dastardly Captain Hook - this family favorite is perfect for theater lovers young and old! Tickets (\$4.50, Kids Under 3 Free!) and map available at Reference Desk. Sorry, no returns. Meet us there!

1pm SOLARBOTS (Registration Required) See Friday, July 9th for details. For kids 9 & up. No experience needed.

2:30pm BAKING COUNTS (Registration Required). See Friday, July 9th for details.

4pm INVENTION CHALLENGE III: FREEFALL Join us in the 3rd and final week where circles become a new math movement! Cash prizes for the top three engineers!

7pm FRIDAY NIGHT LIVE: MATH TREASURE HUNT (Registration Required) Ahoy me hearties! We're going on a treasure hunt around the library. Answer the math clues correctly to win the booty! Arrr! For age 9-14.

Saturday, July 24 10-12noon CARDBOARD CANOE RACE Check out the rules in a separate brochure or visit our website at www.lmxac.org/plainsboro. Visit our blog for a You-Tube record of last year's event: plainsborolibrarynews.blogspot.com. Thanks to the Rescue Squad, the Fire Department, Public Works and the Recreation Department for making this THE invention frolic of the Summer! Trophy for the grand prize winner. For absolutely everyone!

THEATRE SAFARIS:

FRIDAY, JULY 9TH 6 PM : "MOON OVER BUFFALO"
AT WASHINGTON CROSSING

FRIDAY, JULY 23RD 11 AM: "PETER PAN" AT THE
PRINCETON SUMMER THEATRE

Monday, July 26 10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.

12pm **TEXTILE DESIGN** (Registration Required) See Monday, July 12th for details.

2:15 pm **BASKET WEAVING: GOLDEN RECTANGLE BASKET** (Registration required) Throughout history, the Golden Rectangle has been considered the most pleasing to the eye of all possible rectangles. In this five-day workshop with Carol Quick you will incorporate mathematics into art; measuring and weaving a useful basket based on the Golden Mean. Dress for mess! For adults and kids 13 & up.

4pm **LIVE! THE GREAT PRINGLE PACKING REVEAL SHOW** Be there as contestants unwrap their Pringles under the watchful eyes of our judges. Prizes for unbroken Pringles that were in the smallest package, the lightest package, the most artistic packaging, and the Pringle that traveled the greatest distance! There's a trophy for the most innovative packaging!

4pm **ARTS FESTIVAL: A-TEAM** Discover the hidden math in your art while having fun! Create more beautiful treasures with artist David Olson. Make three – leave two for the Arts Festival. Take one home for you! Dress for a mess. Fun for all ages.

7pm **FAMILY MATH NIGHT: MATH SONGS** Bring the whole family to our weekly math nights! Need help remembering the steps for multi-digit multiplication? What about the Pythagorean Theorem? Join us for a family math sing along!

Tuesday, July 27 10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.

12pm **MICROSCOPE WORLD** Drop in during the hour to view phenomena through our Intel microscopes! Bring a bug, flower, salt crystal OR the yuckiest water sample (from a puddle? from Plainsboro Pond?) and peek into the micro-world. For kids 6-8.

2:15pm **BASKET WEAVING: GOLDEN RECTANGLE BASKET** (Registration Required) A continuation of a five-day workshop. See Monday, July 26th listing for details.

4-6pm **STARLAB** (Registration Required) Plainsboro Library's Starlab makes it's stellar debut! Climb through the tunnel to view millions of stars and hear the legends they have inspired! Sign up for a twenty-minute time slot, running every hour on the half-hour.

4pm **MONSTER PINATA PART II** Help finish up our 2010 MONSTER MATH piñata! Later, we will fill it with surprising goodies for a MONSTER BASH at the July 31st International Banquet!

7pm **NEWSPAPER CHAIR COMPETITION** Test your engineering and design skills in this zany challenge using newspaper to construct your own chair! Will it hold 5 pounds? 10 pounds? 20 pounds? What's the cut off number before collapse? The strongest chair takes the trophy, but awards for innovation and design as well!

Wednesday, July 28 10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.

11:30am **EMBROIDERERS' GUILD** (Registration Required) A continuation of the previous week's session on stitching! See July 7th for details.

1:15pm **IMPROV MANIA TOO** (Registration Required) The fourth session in a set of four improv drama classes. See July 7th for details. For kids 6-8.

2:15pm **BASKET WEAVING: GOLDEN RECTANGLE BASKET** (Registration Required) A continuation of a five-day workshop. See Monday, July 26th listing for details.

3pm **MATH CLUB: CONNECT THE DOTS** (Registration Required) Locate a set of points in the Cartesian plane and connect the dots to find a hidden picture! Then make a hidden picture of your own to share with your family and friends! For kids 6-8.

4:30pm **IMPROV MANIA** (Registration Required) The last session in a four-week drama class. See July 7th for details.

7pm **BIRTHDAY BASH** Join us for an evening of birthday celebration as the Improvmania Players impersonate their favorite mathematicians.

Thursday, July 29 10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.

11:30am **NATURE CREATIONS** Come and explore the outdoors at the Plainsboro Preserve! Join us for an 11am Storytime and stay to explore math in nature!! All ages welcome.

1pm **RANGOLI/MANDALA WORKSHOP** See Thursday, July 8th for details.

2:15pm **BASKET WEAVING: GOLDEN RECTANGLE BASKET** (Registration Required) A continuation of a five-day workshop. See Monday, July 26th listing for details.

6pm sharp! **1!2!3!STRIKES YOU'RE OUT AT THE OLD BALLGAME!** Join us for a Trenton Thunder home game versus the New Hampshire Fisher Cats at 7:05 pm, followed by a spectacular fireworks display! Come in your own car or travel with us on the bus. The \$8 tickets are limited, but the fun is not! Purchase at the reference desk. Sorry, no returns.

Friday, July 30 10:15am FOR THE BIRDS (Registration Required) See Monday, July 12th for program details. For kids 8-12.

1pm **SOLARBOTS** (Registration Required) See Friday, July 9th for details. For kids 9 & up. No experience needed.

2:15pm **BASKET WEAVING: GOLDEN RECTANGLE BASKET** (Registration Required) A continuation of a five-day workshop. See Monday, July 26th listing for details.

2:30pm **BAKING COUNTS!** (Registration Required) See Friday, July 9th for details. Ages 6-8.

7pm **FRIDAY NIGHT LIVE: PI FOR ALL!** (Registration Required) What is pi? Why is it so important to the world of mathematics? Join us for an evening of pi activities. We will discover pi, play music with pi, do art with pi, and even eat pi! For ages 9-14.

7pm **SCENES FROM THE ADDING MACHINE** Although this comic expressionistic masterpiece about the accountant, Mr. Zero, was written by Elmer Rice in 1923, you'll be amazed at how relevant it is in our times.

Saturday, July 31 6:30pm INTERNATIONAL BANQUET : MONSTER BASH! Bring a dish to share and enjoy the abundant monsterlicious variety of delicious fare as we celebrate the end of our Monster Math Summer. Door prizes galore, courtesy of community businesses and our homemade piñata will guarantee oodles of fun for one and all!

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SUMMER SCIENCE COMPETITIONS

**MONDAY, JUNE 21ST: PRINGLE PACKING KICK-OFF
AT 3 PM**

**TUESDAY, JULY 13TH: EGG DROPPING
COMPETITION AT 7 PM**

**SATURDAY, JULY 24TH: CARDBOARD CANOE RACE
AT 10 AM**

**MONDAY, JULY 26TH: PRINGLE PACKING REVEAL
AT 4 PM**

**TUESDAY, JULY 27TH: NEWSPAPER CHAIR
CHALLENGE AT 7 PM**