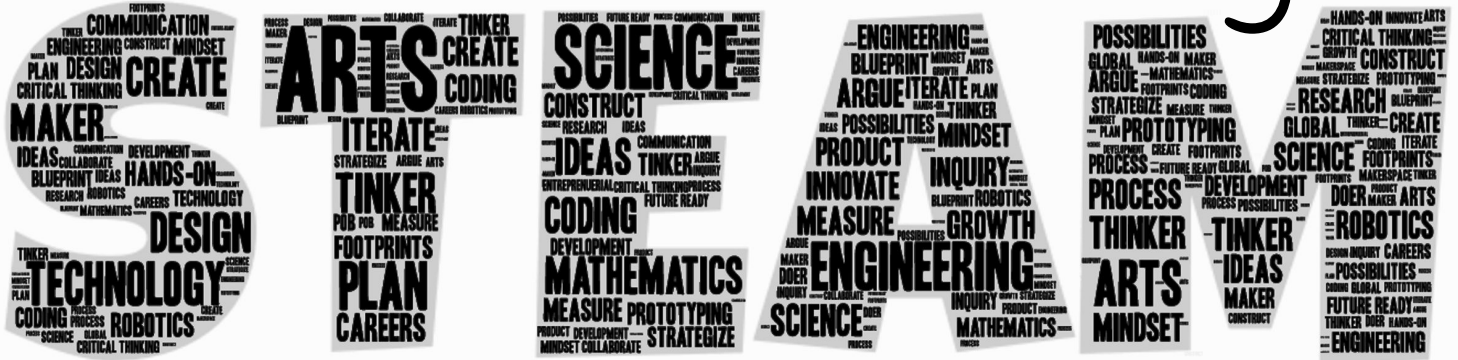


Plainview-Old Bethpage Central School District
is proud to present:

K-8 POB Family



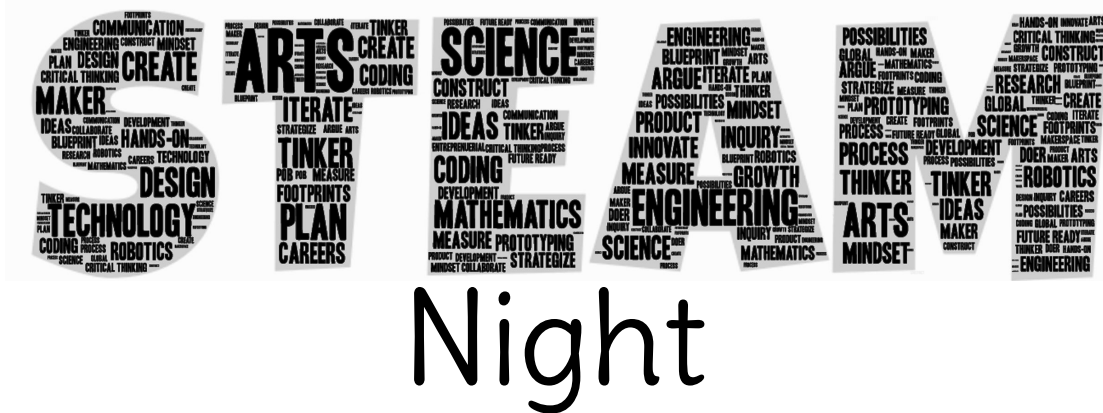
Night

@ POB Middle School
Tuesday, April 10th
6:30-8:30 pm



Come celebrate a family night of exploration and fun as parents and children work together to design, engineer, innovate, and tinker with Science, Technology, Engineering, Art and Math. Looking to find out more about STEAM? Join us for this exciting event!

K-8 POB Family



Parents: Welcome to our first POB Family STEAM Night event.

We have an exciting experience planned for families to come together and learn about STEAM. Below is the preliminary program with a list of stations and sessions that will be happening on that night. Exploratorium Stations are flexible, free-flowing learning spaces where families are encouraged to explore. STEAM Design Challenge Sessions are more directed learning challenges that require more time. While Exploratorium Stations can be attended at any time throughout the night, families will be able to sign up for STEAM Design Challenge Sessions during registration that night. The week before the event you will receive an updated program so you will have time to review the learning options. When you arrive that night you will receive your registration materials. If you have any questions please contact Sherri Winick at swinick@pobschools.org or Suzanne Gray at sgray@pobschools.org

**Please note that parents and children must travel together. This is not a drop-off event. Only those children that are registered for the event are able to attend. Thank you*

EXPLORATORIUM STATIONS

Come tinker and explore STEAM stations with your family as you decide together which areas you want to discover. From makerspaces and robotics to media design and building, take ownership of your family's learning experience.

MAKERSPACE		TECH ROOMS Hallways Students _____
Reverse Engineering	Tinker with everyday objects to learn how they're put together to work	Mrs. McCarroll - 225 Justin Kim, Kevin Jung
Explore the Insides	Ever wonder what the inside of a computer looks like? Come take one apart!	POBot Students _____ - Gallery
Makerspace Lab	Design and build your own creations with our tools and materials	Melissa Groschinski - 223 Students _____
CODING		LIBRARY Hallways Students _____
Meet the Coder School	Come meet Syosset's own The Coder School	Noreen Kazi
Lego EV3 Mindstorm	Build and code Lego robots	Mrs. Patanjo POBots _____
Lego WeDo 2.0	Build and code Lego robots	POBots _____
MaKey MaKey	Turn anything into a key	Chris Park, Minkang Choi, Jeff Hwang, Andrew Currier
OSMO Coding Awbie	Use tangible blocks to code Abie to the strawberries!	_____
AUGMENTED & VIRTUAL REALITY		Hallway Students _____
zSpace	An interactive experience in AR/VR technologies	Mr. Jones , zSpace Lab Room 226, Josh Martin
Quiver	Turn your coloring page into a 3D off-the-page experience	Gym

PHYSICS

MAIN GYM
Hallway Students_____

Catapults	Build a homemade catapult to help you score a goal!	Mr. Colicino, Russel Kim & Kevin Dai
Paper Airplanes	Can you build the design that flies the farthest?	Sameer Kazi, Rahi Shah, Saurav Bhasin & Tyler Goldstein
Structure Building	How high can you build with simple objects?	Mrs. Curtis, Emily Ratas and Jessica Blum
Marble Mazes	Create a path for a marble to travel to test the mechanics of motion	Mrs. DeRosa,, Julia Limmer & Sammi Hilber
Fidget Spinners	Try your hand at designing the fastest spinner!	Marielle Garvey, Nicole Harrington, Rebecca Pasternak & Sumaiyah Syeda
Circuitry	Come test out and design basic circuits, squishy circuits and human circuits!	Esther Kang, Shanah Lee, POBots _____
Balloon Powered Cars	Build a balloon powered vehicle and test it on various surfaces	Sean Liner, Princeton Huang, Avery Girsky, Ethan Tivakaran & Mitchell Indek
Buoyancy Boats	Build a boat that can withstand various solution concentrations	Prince Vathapallil, Zachariah Samuel, Rohan John, Umang Sethi, Julia Park, Ruoxin Lu & Kiana Ziadkhanpour
Recycled Lava Lamps	Use recycled materials to create your own transportable lava lamp	
Sports Padding	Try and protect the egg from sports injuries by designing padding and equipment	Amy Lederer, Noah Lederer & Emily Zhang
Kinetic Sand		Alexis Wojcik, Michael Muhlbach & Ethan Schorr
Bubbleology		Ms. Morea - 202 (FACS)
Kapla Blocks		Mrs. Dubrow -
Imagination Playground	Build life-size creations with your family!	Jean Campbell - Cafeteria

MATH		MAIN GYM Hallway Students_____
Bird's Eye View Building	Recreate blueprints of a building as seen from the side using only a picture of the building as seen from the top	Students_____
Binary Bracelets	Write out your name, or a secret message in binary code using beads to make message jewelry.	Mrs. Pederson, Students _____
Mapping Out Mandalas	Using benchmark fractions to replicate intricate artistic designs	Students _____
Tessellations	Use a single shape to create a beautiful patterned piece of art	Mrs. Engel, Students _____

THE ARTS		MAIN GYM Hallway Students_____
Chromatography Butterflies	The science behind the separation of colors to create symmetrical art	Sydney Hakim, Jessica Goldstein & Emily Chen
Making Instruments	Design and build your own instrument	Andrew Kholodny & Matt Sala
Green Screen Filming	Use our green screen programs with your family to get a great family photo like none other	205 Film & Video Students _____
Twitter Booth	Take photos of your engineered designs in our @POBSchools Twitter Booth	Hallway By Pool Student _____
Kapla Blocks		Mrs. Dubrow - TEACHER LOUNGE

ROBOTICS		AUXILIARY GYM
Spheros		POBots _____
Ozobots		Mrs. Christiansen POBots_____
Dash & Dot Basketball	COME EXPLORE OUR LATEST TECH TOOLS AND THEIR FUNCTIONS	Mrs. Walsh POBots _____
Cubelets		POBots _____
Beebots		
MiP (?)		

STEAM DESIGN CHALLENGE SESSIONS

SESSION TITLES (6 HALLWAY STUDENTS)	FACILITATOR & ROOM
Paper Circuit Greeting Cards	Mrs. Stitt - 213
- Design and create a light up greeting card	Student _____
Spring Chicken Ziplines	Mrs. Timmerman - 211
- How quickly can you get the Spring Chicken down the zipline?	Student _____
Parachute Drop	Mrs. Yohe - 215
- Help an adventurer travel safely to the ground	Student _____
Rapunzel's Tower Challenge	Mrs. Sciara - 207
- Help Rapunzel lift someone up to her tower window without using her hair!	Student _____
Lift it up! Drawbridges	Mrs. Shrage - 217
- Build a functional drawbridge	Student _____
The Three Little Bears Security	Mrs. Jansky - 218
- It's clear the 3 bears need a lock on their door! Help them create their security system!	Student _____
Shake it up! Building Earthquake Resistant Housing	Mrs. Lopez - 216
- Be a Civil Engineer who creates and tests earthquake proof housing.	Student _____
Stop Motion Claymation	Mrs. Gentile - 214
- Use clay to bring a story to digital life!	Student _____
Music Lab	Mr. Langenauer - 229
- Come compose, record, and produce digital music in our POB Music Technology Lab!	Student _____

STEAM DESIGN CHALLENGE SESSIONS

<u>SESSION TITLES</u>	<u>FACILITATOR & ROOM</u>
Paper Circuit Greeting Cards <ul style="list-style-type: none">- Design and create a light up greeting card	
Spring Chicken Ziplines <ul style="list-style-type: none">- How quickly can you get the Spring Chicken down the zipline?	
Parachute Drop <ul style="list-style-type: none">- Help an adventurer travel safely to the ground	
Build Your Own Wind Powered Sailboats <ul style="list-style-type: none">- Can you build a cardboard vehicle that can harness the power of the wind?	
Hydraulic Marble Mazes Family Game <ul style="list-style-type: none">- Design and play your own marble maze game with the use of water plungers	
Shake it Up! Earthquake Resistant Housing <ul style="list-style-type: none">- Be a Civil Engineer who creates and tests earthquake proof housing.	
Blowin' In The Wind: Seed Dispersal <ul style="list-style-type: none">- Use biomimicry to create your own seed that will travel the furthest distance	
Rapunzel's Tower Challenge <ul style="list-style-type: none">- Help Rapunzel lift someone up to her tower window without using her hair!	
Rockets in Flight <ul style="list-style-type: none">- What is the highest gas powered rocket you can build?	
The Strength of Paper <ul style="list-style-type: none">- Can you use the properties of paper to build a table that will hold 2 kgs?	

SESSION TITLES

FACILITATOR & ROOM

Lift It Up!: Drawbridges

- Build a functional drawbridge

The Three Little Bears Security

- It's clear the 3 bears need a lock on their door! Help them create their security system!

Up, Up and Away: Hot Air Balloons

- Build and fly your own hot air balloons

Bubbleology

- Create a bubble wand and investigate if your design affects the bubble shape

Balloon Powered Cars

- See how far an engineered car can travel

Stop Motion Claymation

- Use clay to bring a story to digital life!

Futuristic Travel: Maglev Systems

- Design a magnetic levitation train car and track

Articulated Hand

- Create your own prosthetic limb to learn how it helps people

Imagination Playground Building

- Build life size creations with your family!

Music Lab

- Come compose, record, and produce digital music in our POB Music Technology Lab!