

S.T.E.M. Programming at Vernon Township

Noggin Builders provides a unique experience for children emphasizing fun, hands-on activities in S.T.E.M. (science, technology, engineering and math) to develop creative problem solving and critical thinking skills.

STEM Explorers

Grades: 1-3

All new projects! Explore hands-on, real-world projects in STEM while challenging your problem solving and creative thinking with fun, hands-on activities. Projects include: explore chemical reactions, make a working doorbell, design and test catapults or build your own pulley machine. (Projects may vary.)

Date: Jan 11 - Feb 8 (5 Weeks)
Day/Time: Thursday, 4:00 – 5:00 p.m.
Place: Peterson Park
Fee: \$120 Non-Res: \$180
Min/Max: 6/15

Cool Chemistry

Grades: 1-3

Dry ice, chemical reactions, invisible ink, microscopes and more! These are some of the experiments we'll perform as we explore molecular structures, catalysts, acids, bases and states of matter.

Date: Feb 15 - Mar 15 (5 Weeks)
Day/Time: Thursday, 4:00 – 5:00 p.m.
Place: Peterson Park
Fee: \$120 Non-Res: \$180
Min/Max: 6/15

Gadget Design Club

Grades: 4-5

All new projects! Focused on building and design, this class is filled with scientific experiments and open ended design projects including many areas of STEM (physics, chemistry, robotics and more). Create and test your own gadgets with projects like trebuchets, extending grabbers and vibrating robots.

Date: Jan 11 - Feb 8 (5 Weeks)
Day/Time: Thursday, 5:15 – 6:15 p.m.
Place: Peterson Park
Fee: \$120 Non-Res: \$180
Min/Max: 6/15

Stop Motion Animation

Grades: 4-5

Create your own stop motion animation movies using a variety of different techniques. We will explore story creation, build movie components, and film the final movie.

Date: Feb 15 - Mar 15 (5 Weeks)
Day/Time: Thursday, 5:15 – 6:15 p.m.
Place: Peterson Park
Fee: \$120 Non-Res: \$180
Min/Max: 6/15

TechStars Programs are exciting, fun, team-based experiences where students become PRODUCERS of technology through cutting-edge technology and hands-on projects that build 21st Century skills that connect science, engineering, math, and the arts (STEAM)! TechStars programs are run by COMPUTER EXPLORERS.

Intro to Robotics

(Ages 3-5)

BeeBot™ has buzzed into town to help us learn about robots and programming. Students will learn in a group environment how to give BeeBot commands to program his movements. With hands-on fun and minds-on creativity, BeeBot will spark the youngest imagination

Date: Jan 15 - Feb 19
Day/Time: Monday, 1:00 – 2:00 p.m.
Place: Peterson Park
Fee: \$120 Non-Res: \$180
Min/Max: 6/12

Circuits & More!

(Grades 1-3)

Have you ever wondered how electronics work? Students will gain hands-on experience building projects, using Snap Circuit kits and working with a partner. Young makers will learn about electrical components and all types of circuits to take home a working CopperTape Circuit. Note: No computers are used in this program.

Date: Jan 15 - Feb 19
Day/Time: Monday, 4:30 p.m. – 5:30 p.m.
Place: Peterson Park
Fee: \$120 Non-Res: \$180
Min/Max: 6/12

Physical Computing with Micro:Bit

(Grades 4-7)

The microbit is a powerful mini-computer developed by BBC and Microsoft to encourage students to get actively involved in writing software. Students will see their code come to life in a physical and tactile environment. They will create emoticon displays, games, messages, light and music. Kids will take home a Microbit kit at the end of class.

Date: Jan 17 - Feb 21
Day/Time: Wednesday, 4:30 p.m. – 5:30 p.m.
Place: Peterson Park
Fee: \$120 Non-Res: \$180
Min/Max: 6/12

Program Registration Form

Vernon Township
3050 N. Main Street
Buffalo Grove, IL 60089

Recreation Phone: (847) 634-1542
50 Plus Programs: (847) 634-6060

1 Family Information

Family Last Name:	Address:	
City, State:	Zip Code:	
Home Phone: ()	Cell Phone: ()	E-mail Address:
Alternate Contact and Phone Number:		
Name of Father and Work Number:		
Name of Mother and Work Number:		

2 Registration

First and Last Name	Sex	Birth Date	Age	Program Name	Date of Program and Session	Time of Program	Fee
							\$
							\$
							\$
							\$

Please describe any special accommodations needed for the enjoyment of this program:

Under the Americans with Disabilities Act, if you need any accommodations to participate in this activity, please check this box:

3 Payment

Forms of payment include cash or checks payable to: Vernon Township

Amount of Payment: \$

Check #

Cash

Mail or drop off registration and payment to:

Vernon Township, 3050 N. Main St., Buffalo Grove, IL 60089

There is a \$30 surcharge on all N.S.F. checks.

4 Waiver

VERNON TOWNSHIP RECREATIONAL PROGRAM WAIVER AND RELEASE OF ALL CLAIMS

Please read this form carefully and be aware that in registering yourself or your minor child/ward for participation in Vernon Township programs you will be waiving and releasing all claims for injuries you or your child/ward might sustain arising out of said programs.

I recognize and acknowledge that there are certain risks of physical injury to participate in the above program(s) and I agree to assume the full risk of any such injuries, damages, or loss regardless of the severity which I or my child/ward may sustain as a result of participating in any activities connected to or associated with any such program(s). I waive and relinquish all claims I or my child/ward may have against the Township and its officers, agents, servants, and employees from any and all claims as a result of participating in any of the above program(s). I hereby fully release and discharge the Township and its officers, agents, servants, and employees from any and all claims from injuries, damages, or loss which I or my child/ward may have or which may accrue to me or my child/ward on account of my participation or the participation of my child/ward in any of the above program(s). I further agree to indemnify and hold harmless and defend the Township and its officers, agents, servants, and employees from any and all claims resulting from injuries, damages, and losses sustained by me or by my child/ward and arising out, connected with, or in any way associated with the activities of any of the program(s).

I have read and fully understand the above programs details and waiver and release Vernon Township of all claims.

Signature of Participant or Parent/Guardian (if participant is under 18):	Date:
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NOTE:

Participants will only be notified of class changes or cancellations.

Please fill out this form completely. Incomplete or inaccurate information will delay your registration.