

# S.T.E.M. Programming by Noggin Builders

**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. Register using the form on page 15.

## STEM Explorers

Grades: 1-3

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: Sep 7 - Oct 12 (5 Weeks)  
\* No Class on 9/21  
Day: Thursday  
Time: 4:00 – 5:00 p.m.  
Place: Peterson Park  
Fee: \$120 Non-Res: \$180  
Min/Max: 6/15

## LEGO Science

Grades: 1-3

Build problem solving and critical thinking skills while we build LEGO structures that help us explore the world of Physics. Design simple and motorized machines and create models using principles of force and motion; incorporate LEGO designs into science explorations like pulleys, axles and levers; and have fun exploring science using LEGO.

Date: Oct 19 - Nov 16 (5 Weeks)  
Day: Thursday  
Time: 4:00 – 5:00 p.m.  
Place: Peterson Park  
Fee: \$120 Non-Res: \$180  
Min/Max: 6/15

## Gadget Design Club

Grades: 4-5

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: Sep 7 - Oct 12 (5 Weeks)  
\* No Class on 9/21  
Day: Thursday  
Time: 5:15 – 6:15 p.m.  
Place: Peterson Park  
Fee: \$120 Non-Res: \$180  
Min/Max: 6/15

## STEM Explorers

Grades: 4-5

Explore hands-on, real-world projects in STEM while challenging your problem solving and creative thinking with fun, hands-on activities. Projects include: design a roller coaster, program a robot, investigate the bounce of a ball, create your own “flicker” or build a spring powered car. (Projects may vary)

Date: Oct 19 - Nov 16 (5 Weeks)  
Day: Thursday  
Time: 5:15 – 6:15 p.m.  
Place: Peterson Park  
Fee: \$120 Non-Res: \$180  
Min/Max: 6/15

## Mind Movers STEM

Grades: Children in the last year of Pre-School

In this introduction to STEM and literacy, your child will build creative problem solving and critical thinking skills through fun, hands-on activities in science, literacy, math and art. We also build fine and large motor skills, listening skills, and collaboration with others through interactive challenges.

Date: Sept 12 - Nov 7 (8Weeks)  
\* No Class on October 3.  
Day: Tuesdays  
Time: 1:00 – 3:00 p.m.  
Place: Peterson Park  
Fee: \$240 Non-Res: \$360  
Min/Max: 6/15

# Recreation Programs

## Practical Street Self-Defense for Adults and Seniors

An on-going, low impact class designed for those new to self-defense, providing returning students with the opportunity to review and perfect their skills and learn more advanced techniques. The course will teach simple and effective self-defense techniques against the most common unarmed attacks, including defenses against knife, club and gun attacks, and instruction on defending with a stick or cane. Students with physical limitations will receive individual instruction on alternative self-defense options. The instructor is a practicing attorney with over 15 years experience in Kenpo Karate, Krav Maga and Kali, and will address the legal ramifications of using self-defense. (Students need to be at least 18 years old to participate) Please stop by the Vernon Township office to register or mail in the registration form found at [www.vernontownship.com](http://www.vernontownship.com).

**Date:** Sep 19- Oct 3 (3 Weeks)  
**Time:** 6:00 p.m. - 7:00 p.m.  
**Days:** Thursday  
**Place:** Peterson Park  
**Fee:** \$15 Non-Res: \$22.50  
**Min/Max:** 4/20

## Self-Defense for Teens

Age: 13-18

A 1.5 hour seminar focused on teaching teens to identify and avoid potentially dangerous situations, suggestions on how to de-escalate a situation before it becomes violent, and when there are no other options, how to use the least amount of force necessary to escape a confrontation. Students will learn simple, effective, and easy to remember defenses to common unarmed attacks, as well as against a club or knife attack. The instructor, a practicing attorney with over 15 years of experience in Kenpo Karate, Krav Maga, and the Filipino Martial Arts, will address the legal ramifications of using self-defense.

**Date:** October 14, 2017  
**Time:** 10:00 a.m. - 11:30 a.m.  
**Days:** Saturday  
**Place:** Peterson Park  
**Fee:** \$5 Non-Res: \$7.50  
**Min/Max:** 4/20

## Soccer / T-Ball Combo

Age: 3-4, 5-6

This program is perfect for a child who is full of energy and parents who are looking for an introduction to soccer and tee ball. Socialization, teamwork, following directions, key motor skills, and having fun will be the focus in this noncompetitive environment. The first 2 weeks of class will focus on soccer and the second 2 weeks we will work on t-ball. The last class will be a fun game of each sport and a fun game will be played at the end of each class if time allows.

**Date:** Sept. 13 - Oct 18 (5 Weeks)  
\* No Class on 9/20  
**Day:** Wednesday  
**Time:** 4:30 – 5:20 p.m. (3-4 Year Olds)  
5:30 – 6:20 p.m. (5-6 Year Olds)  
**Place:** Admin. Playing Fields  
**Fee:** \$44 Non-Res: \$66  
**Min/Max:** 8/20

# 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

<b>Forms of payment include cash or checks payable to: Vernon Township</b>		
Amount of Payment: \$	<input type="checkbox"/> Check #	<input type="checkbox"/> Cash
<b>Mail or drop off registration and payment to:</b> Vernon Township, 3050 N. Main St., Buffalo Grove, IL 60089		<b>There is a \$30 surcharge on all N.S.F. checks.</b>

## 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.