

Hands in Motion

Homeschool Enrichment



Hands in Motion is proud to be offering academic and enrichment classes. It is our goal to provide the opportunity for children to explore their gifts; whether that is technology, sports, language, creative arts, math, writing, science, history, or building with their hands.

Come and join us in encouraging your child as we put their

["Hands in Motion" for learning!](#)

Independent and Charter Families Welcome

Spring Classes—Starting January 8th

- | | |
|-----------------------|-------------------------|
| Lego Engineering | STEM/ Drone Flying |
| Computers | Architectural Drafting |
| Small Engines | Electronics |
| Jr. Carpentry | Nerf Boot Camp |
| PE Sports | Lego Robotics |
| Excellence in Writing | Tennis |
| Model Building | Hands on Science & Labs |

NEW SPIKEBALL



[Register Online: HandsInMotion4Learning.com](http://HandsInMotion4Learning.com)

Hands in Motion Spring 2018 Class Descriptions

Architectural Drafting and Design I & II (Grades 6–H.S.) \$175



"Take it to the drawing board." In this class we will be learning drafting techniques and designs. Students will draw two-dimensional building models to scale. We will be using pencils, drafting instruments, and graph paper to create our blue prints. This class is designed to work hand in hand with the Model Building Class. Students will use blue prints created in this class to build 3D models in the Model Bldg. class.

This class is a great complement to the Handy Kid, Jr. Carpentry, and Model Building classes.

Continuing and new students welcome.

Some drafting instruments may be required for purchase.



****Targets State Standards for Fine Arts****



Computer: Key-boarding and PowerPoint (Grades 4-H.S.) \$175

Does your child "text" faster than he/she can type? In this class, we will be teaching the standard keyboard. Students will learn proper hand placement and focus on memorizing the keys in order to type. Games and friendly competitions with prizes will be incorporated as encouragement to gradually increase in speed and accuracy throughout the semester. We will also explore the usage of PowerPoint. Students will have projects in class as well as optional take home assignments to become familiar with these necessary computer skills.

Computers are provided.

****Targets Standards for Technology****



Hands on Science: (Grades 4-8) \$210

With Labs (Books included)

Continuing and new students welcome.

Come learn about science in a fun, hands on class that will target your science standards for the year. No boring lectures just lots of creative activities and experiments to promote learning. Building a solid science foundation for your elementary- and junior high-age kids so they will be well-prepared for high school is our goal! We use Real Science 4 Kids as our curriculum. Real Science 4 Kids is engaging and focuses on fundamentals, giving your child a confidence with essential concepts and terms. Chemistry I is the first part of the Level I curriculum, which includes basic **Chemistry** (introduces children to college-level chemistry concepts such as the atom and periodic table, molecular bonding and chemical reactions. acid-base reactions, mixtures and separating mixtures, and large molecules such as carbohydrates, polymers and enzymes), **Physics** (concepts covered are: Laws of physics and the scientific method; force, work and energy; potential and kinetic energy; motion; chemical and electrical energy; current, magnets and electromagnets; light and sound energy; and conservation of energy). **Biology** (topics covered: taxonomy, the cell, the specialized organelle (the chloroplast), plants, protozoa, frog and butterfly life cycles, ecosystems and cycles).

Class runs for the entire school year; however, new students are welcome in Spring. Prices are per semester.

Text: Real Science 4 Kids Level I or Middle School by Rebecca W. Keller

Text books are available for loan during semester. Lab materials will be provided; however, Lab Manuals are optional and can be purchased separately.

Books can be ordered on [Amazon](#) or [Rainbow Resource](#).

Fall: Chemistry/ Physics

Spring: Physics/Biology

Each class period will include a hands-on lab experiment to allow the students to further investigate about each subject. Monday's class will be targeted for the older student. Both days will cover the same material.

****Targets State Standards for Science- Experimentation****

Handy Kids Part 2 (Grades 6-H.S.) \$195

Continuing and new students welcome.

NEW Projects for Spring

No more calling the plumber when the sink is backed up. Now you'll have your own personal repair person at your service! In this class, we will instruct and train the students to troubleshoot and fix the most common household problems that you could spend lots of money on hiring someone else. In a classroom setting, students are taught principals of operation, proper techniques, use of tools, and methods to fixing various repairs around the home. Each repair is then performed in a lab setting using the actual fixtures found in your home. Students will work in small teams covering such repairs as:



- | | |
|--------------------------------------|-----------------------------------|
| Unclogging drains | Changing light bulbs/fixtures |
| Installing faucets | Repairing running toilets/leaking |
| Install and repair sprinkler systems | Changing light switches and plugs |
| Repairing/replacing window screens | Fixing squeaking doors |
| Repair holes in wall | Fixing garbage disposal |
| Replace broken door handle/lock | Unplugging a clogged toilet |

..... and to Protect Your Home with Regular Maintenance



Jr. Carpentry: (Grades 4-H.S.) \$195

Continuing and new students welcome.

NEW Projects for Spring



Get to math skills through the back door. In this class students will practice measuring, plotting, graphing, arithmetic, geometry, and dimensions.... but they will be focusing on building their very own take-home project....not the math. Tool safety and instruction will be emphasized for such tools as a screwdriver, wrench, hammer, saw, router, drill, and various others. We will take ideas, learn how to draw and plan them out, and then have the skills to create them. **We start with raw wood materials to make individualized wood projects.** Students learn how to measure and calculate angles creating a blue print design for their project. They will then measure, cut, assemble, paint, stain, and engrave their very own projects to take home.

****Targets Standards for Art and Math****

Lego® Robotics (Grades 5-H.S.) \$195

Continuing and new students welcome.

Favorite

NEW Projects for Spring

In today's world, it seems all students need to be equipped with STEM (science, technology, engineering, and mathematics) knowledge and the creative problem-solving skills necessary to be innovative and creative thinkers.

This is a beginning course in robotics. We will be utilizing Lego Mindstorms NXT base sets. Lego Mindstorms uses a computer software platform and various Lego Robotics materials to introduce the student to computer robotic programming, building techniques, as well as problem solving strategies. Students will be involved in the development, building, and programming of a LEGO Mindstorms robot to perform desired tasks. Students will work hands-on in teams of two to design, build, and program selected robotic projects. Cause and effect learning is enhanced as the models work in conjunction with a computer and, similar to scientists working in labs, students can test and adjust their programming in real time. These projects will start with simple designs which will grow in complexity throughout the class. This robotics program was designed by the creators of the LEGO Mindstorms NXT Robotics Systems (for Middle & High School students) and is a great way to introduce young students to foundational building and programming concepts. Computers are provided. Students will learn –

- How to collaborate in groups and teams
- How to design robots for specific activities and scenarios
- How to use robotics programming software on a laptop
- To design, develop, and complete robotic activities and challenges



Model Building I & II (Grades 6-H.S.) \$185

Continuing and new students welcome



Here things come to life!! In this class, students will learn & hone in on their drawing skills as they envision the house they may want to ultimately build one day. After drawing up their "blue prints," they will then be given the opportunity to have their design "leap off the paper and come to life!" Working with various sized balsa wood, they will create a model size version of their plans. This is an assisted project based class. Students will be challenged to their ability and beyond.

- Returning students are welcome to continue to work on their plans/model as they move from single story models with living space and roof to multi floor designs.

****Targets State Standards for Math and Fine Arts****

This class is designed to complement Architectural Drafting Class as students use their 2 D drawings to create their 3D models. Drafting is Recommended but not required.

****Targets State Standards for Critical Thinking and Art****

PE—Games in the Gym (Grades 4-8) \$160

Continuing and new students welcome

Parents, are you looking for a fun place for your children to get out and be active? Build friendships? In this class, the students will be playing, exercising, and learning all at the same time. Students will be exposed to sports such as basketball, soccer, volleyball, and others. Teamwork and sportsmanlike conduct will be encouraged in non-competitive games. They will learn the proper techniques in stretching, strengthening, and conditioning for better health. Come join us for some healthy play.

****Target Standards for Physical Education****

PE- Nerf Boot Camp (Grades 4-H.S.)

See below descriptions for specific class days

Continuing and new students welcome



Dodge the Bullet!!!!... This class is created around the military boot camp format. A "Master Drill Sargent" will train the students in hurdling walls, shooting range/target practice, calisthenics, & obstacle courses, as they train to succeed at the "Nerf War Games!" ALL the exercise with DOUBLE THE FUN!!_Dress to get dirty. All students will receive a Nerf Camp T-shirt with enrollment.

***Mondays Nerf War Games (Grades 4-8) \$175**

This fun, fast moving class focuses on the play of Nerf War games. We will have battles in the gym using Nerf dart guns and/or Rival guns. Students may bring their own Nerf guns and safety glasses. Nerf darts will be provided. Nerf guns are available, if needed, make sure to reserve one when you register.

***Tuesdays Nerf Rival War Games (Grades 4-H.S.) \$175**

This Nerf class is for the kid who wants to see a little more action using the new Nerf Rival Guns. We will be focused mostly on fast pace Nerf Games along with battle strategies. Here they will learn simple military commands and marching drills as they work together as a platoon to win at the Nerf Games. Guns and safety glasses will be provided for class time. T-shirt included

***Fridays Nerf Boot Camp (Grades 6-H.S.) \$195**

This Nerf class is geared towards the older student with more military structure, physical conditioning, and Nerf games. We will be using the new Rival Nerf Guns in battle in the gym and on the outside Nerf battlefield. Part of the class time will be focused on strength training, obstacle course achievements, team work, and self-discipline. Objectives covered will be developing an appreciation of the importance of physical fitness and developing knowledge of team building and basic military skills. Rival Nerf Guns and safety glasses are provided for class time. T-Shirt and Hats included. Purchase of Army tactical pants required.

****Targets State Standards for Physical Education****

Small Engines and Machines (Grades 5-H.S.) \$195

This hands-on course introduces 4-stroke engine components and system through labs. Students use small engine blocks to learn how each piece fits and works together to power the operation of four-cycle engines commonly found on lawn mowers, garden tractors, snow blowers, rotary tillers, chainsaws, and other equipment. Instructional topics include: principles of operation of internal combustion engines, routine maintenance along with disassembly of engine. Engine part identification and definitions of terms, such as torque and horsepower, are emphasized. Students will be paired up in teams to work on individual engines. In addition to the above topics, this class will give the students opportunities to become familiar and experienced in using mechanical hand tools. This class is designed to prepare students for our Small Engine Repair class. All tools will be provided.

One semester class for new students.

****Targets State Standards for Science****

Small Engines Repair (Grades 5-H.S.) \$195

Must have completed Small Engines and Machines



This class is designed for the student that wants to “fix small engines and make some money.” Having completed our Small Engines and Machines class, these students will be able to take that knowledge and apply it to real world engine problems. Students will be instructed and trained to maintain and repair the most common small engines problems. This class covers, but is not limited to, troubleshooting and repairs, restoring of lost power, smoking lawnmower, starter rope problems, lawn mower carburetor repair, oil change, and engine tune-ups. Through the use of hands -on labs, videos, and personal expertise, students will gain the necessary skills to perform repairs for family and friends. Students will be paired up in teams to work on individual engines.

****Targets State Standards for Science****

Spike Ball (Grades 4-H.S.) \$175

Continuing and new students welcome

Join us for one of the fastest growing sports around. This class was created to give children who have an interest in playing sports an opportunity to engage with, practice with, and **compete against** other groups of children. Our goal is twofold; to come along side and train, teach character, build confidence, teach healthy life styles, and to help children perform better in school academics through team building. Whether your child has played in sports or is wanting to, this class is for them.

****Targets State Standards for Physical Education****

STEM in the Sky (Grades 6-H.S.) \$245

Drone Aviation

Continuing and new students welcome



This exciting new STEM course aims at immersing students in the unmanned aerial vehicles industry (UAV or Drones). This is an emerging industry. Students will be exposed to modeling and simulation technology that will prepare them for new in-demand career opportunities.

Our class objectives will focus on mastering the flight planes, execution of piloting the drones, and creating unique obstacle courses. Each drone is also equipped with a camera which we will use to create video clips of our adventures.

Space is limited.

****Targets State Standards for Science, Technology, and Mathematics****

Tennis- Private and Semi-Private Available for all ages

Join us for some fun on the court. Chris Androkitis has been a professional tennis instructor for over 25 years. He is certified with the United States Tennis Registry and is skilled in especially working with children.

It is encouraged for students to have their own racquets. Some are available for loan.

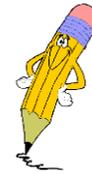
\$60/hr. Private or Semi-Private Contact us for availability.

Classes held at Cresthaven Park just a couple blocks from the classroom.

****Targets State Standards for Physical Education****

Writing- Excellence in Writing (Grades 4-8) \$175

Continuing and new students welcome



Do you struggle with getting your student to write? Are you not sure what is enough for their grade level? Or do they love to write but need some help with structure and description? Then... we have the answer! Join us as we use Andrew Pudewa's nationally acclaimed curriculum from the Institute for Excellence in Writing. We will take foundational writing styles one step at a time. The focus of this semester is Creative Writing. Students will work on assignments in class with teacher support as well as peer support. Take home assignments with teacher grading and editing will be included. We will be using IEW Group A. Class is taught by Jennifer Androkitis who has a Master's Degree in Special Education with an emphasis in English.

Completion of Writing I or knowledge of IEW Group A or B highly recommended. Please contact us if you have questions.

Required Text: [Student Writing Intensive Level A \[Notebook & Packet\]](#) can be purchased through Excellence in Writing web site. www.iew.com \$19 for binder/notebook or \$10 for download.

****Targets State Standards for Language Arts****

Zap-It Electronics I & II (Grades 4-8) \$195

Continuing and new students welcome

NEW Projects for Spring



Give your child an exciting, hands-on introduction to electronics.

From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. In this course, students will gain skills and knowledge through classroom and hands-on lab activities in the areas of basic DC circuits using switches, resistors, microphones, and capacitors. Over the course of the class we will be creating simplified working circuit boards just like the ones found in alarms, TV's, Radio, and other electronic devices.

****Targets State Standards for Science, Technology, and Mathematics**

Hands in Motion

Homeschool Enrichment

HandsinMotion4learning.com
(916) 412-4331

Spring Session: 1/8 -4/9
301 W. Whyte Ave.
Roseville, 95678

MONDAYS

Favorite

9:30-10:20	10:30-11:20	11:30-12:20	1:00-1:50	2:00-3:15
Computer Keyboarding and PowerPoint Grades 4-H.S. \$175	Nerf Games Grades 4-8 \$175	Small Engines Repair (Pre-requisite) Grades 5-H.S. \$195	Lego Robotics I & II Grades 5-H.S. \$185	Hands on Science Grades 5-8 \$210 (Books included)



Nibble & Dribble Lunch 12:30-1:00

TUESDAYS

9:30-10:20	10:30-11:20	12:00-1:00
Jr. Carpentry Grades 4-H.S. \$195 <i>(NEW projects for Spring)</i>	Nerf Rival Wars Grades 4-H.S. \$175 (includes T-Shirt)	Spike Ball Grades 4-H.S. \$175



Nibble & Dribble Lunch 11:30-12:00

WEDNESDAYS

9:00-9:50	10:00-10:50	11:00-12:00	12:30-1:45	2:00-2:50
Jr. Carpentry Grades 4-H.S. \$195 <i>(NEW projects for Spring)</i>	Games in the Gym Grades 4-8 \$160 ----- Small Engines Grades 5-H.S. \$195	Zap-it Electronics I & II Grades 4-8 \$195	Hands on Science Grades 4-8 \$210 (Books included)	Creative Writing Grades 4-8 \$175



Nibble & Dribble Lunch 12:00-12:30

FRIDAYS

9:30-10:20	10:30-11:20	11:30-12:20	1:00-1:50	2:00-2:50	
Handy Kids Home Repairs Part 2	Nerf Boot Camp	STEM in the Sky Drone Aviation I & II	Architectural Drafting I & II	Model Building I & II	
Grades 6-H.S. \$195	Grades 6-H.S. \$195 <i>includes T-Shirt & Hat</i>	Grades 6-H.S. \$245	Grades 6-H.S. \$175	Grades 6-H.S. \$185	
Nibble & Dribble Lunch 12:30-1:00					



Favorite

TENNIS
We also offer Private and Semi Private Tennis Lessons Contact us for available times

HandsInMotionHomeschool@gmail.com
(916) 412-4331

**301 W. Whyte Ave.
Roseville, CA 95678
Off Hwy 80 and Riverside**

Independent and Charter Families Welcome
See complete class descriptions and Register online:
www.HandsinMotion4learning.com