

2017



**Wheeling High School Summer STEM Camp
For Students Entering 1st through 8th grades
Monday-Thursday, June 12-15, 1-4:15 pm**

TO REGISTER:

**Fill out the registration sheet and drop it off at
Wheeling High School or mail it in**

**QUESTIONS: Call Cindy Hughes 847-718-7097
Or Tim Meyer 847-718-7390**

Welcome to another year of Wheeling High School's Summer STEM Camp! We are very excited to welcome future Wheeling Wildcats who will be in grades 1 through 8 in the fall to experience the fun and excitement of math, science, technology and engineering this summer. Our staff has planned a variety of hands-on, fun experiences in all areas of Science, Technology, Engineering and Math. WHS embraces the concept of STEM for ALL and we look forward to introducing your students to STEM this summer!

IMPORTANT INFORMATION

Registration

Please register either in person or by mail by filling out the attached registration form. Please note, classes are filled on a first come, first served basis. Please be sure to choose 1st, 2nd and 3rd choices for courses and make sure your contact information is correct.

Registration is due by May 26th

Cost

\$40 per class- includes one t-shirt per student, 4 days of classes, lab supplies and a snack between classes. If you register for two classes for one student, you will pay \$75 (a \$5 savings.) LEGO Robotics is the one class that meets for both sessions, from 1:00 pm – 4:15 pm. It is \$75 to take this course.

Eligibility

Select classes by the grade level your child **will be entering in the fall of 2017**, first through eighth grade.

Location

Summer STEM Camp is held at Wheeling High School, 900 S. Elmhurst Road, Wheeling, IL 60090.

Parking and Drop off – CONSTRUCTION!

PLEASE NOTE: Main parking/drop off will be on the WEST side (back) of the school at Door 29 this year. Please park your car and walk your student into the cafeteria for Summer STEM Camp. Be sure you are using extreme caution using the crosswalk from the parking lot to the building, please.

Scholarships

A limited number of partial scholarships are available for families in need of financial assistance. To make a request for financial assistance, please call 847-718-7097.

Curriculum

We have seven NEW classes that we are offering this year:

- Messy Spectacular Science for 3rd, 4th and 5th graders
- Fun With Fluids for 1st, 2nd & 3rd graders
- Light Up Your World for 6th, 7th & 8th graders
- Learn To Code From Scratch for 6th, 7th & 8th graders
- FUN-TECH Coding 1 for 2nd & 3rd graders
- FUN-TECH Coding 2 for 4th & 5th graders
- FUN-TECH Coding 3 for 6th, 7th & 8th graders

Our other classes will have basically the same curriculum as last summer, so we encourage you to sign up for a different course this summer. If you took Photoshop last year, you can enroll again and make different products.

Faculty

Summer STEM Camp faculty are District 214 teachers and staff who are extremely knowledgeable in their teaching areas. Varied backgrounds, disciplines, and experiences allow them to provide your child with enjoyable and rewarding learning experiences.

Refund Policy/Liability

All class refund requests are subject to a \$25 non-refundable processing fee. Registration fees are non-refundable once the class has begun. Classes with low enrollment will be cancelled and a refund will be issued if other class choices are unavailable.

Questions?

Registration, program and scholarship information questions should be directed to Cindy Hughes, Math/Science Division Assistant at cindy.hughes@d214.org or 847-718-7097 or Tim Meyer, STEM Camp Coordinator, at 847-718-7390.



Si le gustaría este folleto en español,
por favor llame al [847-718-7011](tel:847-718-7011) a
Elvira Weiner y se puede mandarle
una copia en español.



Course Descriptions

A Bug's Life

Grades 1 & 2

Instructor: D. Caponigro

Do you enjoy playing with bugs? Would you like to learn more about them? You will meet an insect or arachnid each day and learn what it eats, how it transforms, and how it protects itself from enemies. It will be a buggy afternoon.

What's My Shape?

Grades 1 & 2

Instructor: A. Ku

Are you intrigued by the shapes around us and their properties? Then this is the class for you. Students will learn about shapes by building models using food, finding perimeters of different types of crackers, going on a treasure hunt and playing games.

Healthy Snacks

Grades 1 & 2

Instructor: J. Cederberg

Children will actively become a part of preparing healthy snacks by participating in various activities and becoming familiar with MyPlate.

You Can't Taste a Pickle With Your Ear!

Grades 1 & 2

Instructor: R. Runyard

Can you taste a pickle with your ear? Of course not! But if you are reading this, you are seeing the words, feeling the book, and hearing whatever is going on around you. If you happen to be chewing gum, you are tasting, and if someone is wearing perfume, you are smelling too! You will enjoy this intro to the five senses with your eyes, fingers, ears, nose and mouth!

Do Worms Like Snow in April?

Grades 1, 2 & 3

Instructor: D. Caponigro

Is it snowing in April? What is happening to our climate? Is there anything that I can do to help? This class will investigate climate change and what people can do to help the environment. Students will learn about climate change, causes of global warming, benefits of recycling, and how they can help to keep our Earth green! Students will make a mini-composting bin complete with organic materials and worms! Please bring in an empty plastic 1-gallon container on the first day of class.

Fun With Fluids

Grades 1, 2, & 3

Instructor: M. Sison

Fluids are liquids and gases. They change shape when you put them in a new container, and that makes them perfect for all kinds of activities! Investigate bubbles and use them to make fluffy (and tasty) treats. Get a little messy making a strange liquid that sometimes acts like a solid. Start a chemical reaction, create a cloud in a bottle, launch a rocket and much more in this hands-on class.

Pockets

Grades 2 & 3

Instructors: K. Lennon, M. Theodosakis

Have fun with Math! Pockets will bring Math to life. Pockets is an interactive program in which students create, count, add, and work with pockets. Using technology, students will learn how to create and analyze different graphs.

Spa Science

Grades 1, 2, 3 & 4

Instructor: T. McNew

Science from the salon. Learn about different science concepts and how they apply to spa activities, like body scrubs, spa snacks...and end the week with a SPArty!

Crimebusters

Grades 3 & 4

Instructor: L. Dubnicka

Have you ever wondered how the police can solve a crime when there is nobody around to tell them what has happened? Join us and learn how to process fingerprints and examine hair samples, blood splatters, and pigments. Become a junior detective and help us solve the mystery!

Nanotechnology1

Grades 3, 4 & 5

Instructors: C. Bouvier

Nanotechnology is the study of really small things! In this class, you'll be doing experiments to see how things work differently at the nano scale. Can you walk on water? Of course not, but some insects can! How is that possible? We'll find out in Nanotechnology class!

Eat Your Math

Grades 3, 4 & 5

Instructor: C. Ellis-Abdullah

Are you interested in working in the kitchen? Do you love to experiment with food and try your results? Are you ready to plan for parties of 4, 40 or 400? This is the course for you! You'll be able to work with recipes and learn to use your math skills to make recipes for bigger and smaller groups. You will be making food during your time---and you'll get to eat it!

Chart The Heart

Grades 3, 4 & 5

Instructor: R. Runyard

Learn how exercise affects our heart rate, from vigorous to peaceful yoga. Learn about the science of the heart and the relationship of physical activity to your heart.

Messy Spectacular Science

Grades 3, 4 & 5

Instructor: C. Cassidy

Have you ever seen a soap explosion? Or made something spray or spatter so far that you could not possibly do it indoors? In this course we will look to “go bigger” and “go messier” with activities that will safely educate and entertain.

Sportistics

Grades 4, 5 & 6

Instructor: S. Wold

Are you a sports fanatic? Have you ever wondered how sports announcers come up with all of the statistics they talk about? Come join us for “Sportistics”, where we will actually play four different sports, and do our own statistical analysis of how we play. Students will participate in Basketball, Baseball, Soccer and Track. Please wear sports gear and gym shoes!

Spa Science

Grades 4, 5, 6, 7, & 8

Instructor: T. McNew

Science from the salon! Learn the science behind some of your favorite spa treatments and activities.

Mythbusters

Grades 5, 6, & 7

Instructor: L. Dubnicka

Have you ever seen the show Mythbusters on Discovery Channel? This class will give you a chance to investigate some common science myths and see if you can “bust them” or support them. You’ll be working with different scientific processes to discover whether or not a myth is fact or fiction.

Photoshop & Sublimation

Grades 5, 6, 7, & 8

Instructors: T. Bednarski, J. Koelper, K. Dyer

Are you creative? Do you like to work on the computer? Then this is the class for you. You will learn the basics of Photoshop and create your own personalized items to take home with you.

Science of Candy

Grades 6, 7, & 8

Instructor: J. Voelker

Did you know that there is a hidden science behind the making of candy? Within each piece of candy, there is hidden science that leads to making that delicious treat! You will make several types of candy and learn the science of how they are made.

Digital Design

Grades 6, 7, & 8

Instructor: K. Dyer

Learn how to be a graphic designer! In this workshop you will learn how to use the computer and the Adobe Creative Suite to create unique digital designs from scratch. At the end of the week you’ll be able to upload your designs or print them to take home.

Nanotechnology2

Grades 6, 7, & 8

Instructor: C. Bouvier

Nanotechnology is the study of very small things. You will get to experience the state of the art WHS Nanotechnology Lab and use instruments like a Scanning Electron Microscope. You will observe the unseen world as you have never imagined, learn about how properties work differently at the nano scale and how scientists use nanotechnology to make cool new products.

Chemistry of Cooking

Grades 6, 7 & 8

Instructor: C. Cassidy

Have you ever wondered about the science that goes into cooking? What makes pancakes fluffy? How do we make dippin’ dots? Can we cook an apple pie without apples? These questions will be answered (and more) when we will explore the meeting point between cooking and science. Through our explorations, we will make gummy worms, use liquid nitrogen to make ice cream in 10 seconds or less, and perform other culinary feats while learning the science behind the method.

FUN-TECH Coding 1, 2 & 3

Did you ever wonder how a game like NBA mobile or Minecraft was created? It is all based on knowing how to talk to your device in a language called code. This class will explore the basics of coding at different levels. You will have a chance to learn through online coding games along with hands on activities. iPads will be provided for class use.

FUN-TECH Coding 1 Grades 2 & 3

Instructor: M. Abat • FUN-TECH Coding 2

Grades 4 & 5

Instructor: S. Strauss

FUN-TECH Coding 3 Grades 6, 7 & 8

Instructor: B. French

Learn to Code From Scratch

Grades 6, 7 & 8

Instructors: J. McNamee/C. Ellis-Abdullah

This class will introduce you to computer science concepts through Scratch. Scratch is a web-based coding environment that allows students to program their own interactive stories, games and animations. Once you have created an account and explored the basics, you can choose from a number of coding activities: Animate Your Name, Make It Fly, Make Music, Race to the Finish, and MORE! Students should come to class with an email account and password to use for this class.

Light Up Your World

Grades 6, 7 & 8

Instructor: M. Sison

Everyone knows that the primary colors are red, blue, and...green? Find out why scientists who study light have primary colors different from the ones you learned in art class. Investigate the properties of light and its effects on humans. Use common objects to make rainbows, conduct an experiment to determine what kind of sunscreen is best for summer days at the pool, and learn – through dissection – how our eyes process light.

LEGO Robotics--- DOUBLE SESSION Grades 6, 7, & 8 Instructor: K. Weber

If you love LEGO, robots or computers, this is your chance to have some fun and use your imagination. You will work in small groups using the LEGO Mindstorms EV3 system to build and program your own robot to maneuver through an obstacle course, pick up objects, and make sounds. The possibilities of your robot are only limited to your imagination!

****LEGO Robotics will meet as a double class, during both session 1 and 2, from 1 – 4:15 pm, so you will only sign up for THIS class if you want to work with Legos!****

You Spent Your Money on WHAT?! Grades 7 & 8 Instructor: C. Rugg

Have you ever wanted to purchase something but realized that all of your allowance money was gone? All of those little purchases add up. In this session we will show you how a little saving can go a long way!

Schedule of Offerings:

	1st Session: 1:00pm - 2:30pm	2nd Session: 2:45pm - 4:15pm
1st Grade	Spa Science A Bug's Life Healthy Snacks	What's My Shape? You Can't Taste A Pickle With Your Ear Do Worms Like Snow in April? Fun With Fluids
2nd Grade	Spa Science A Bug's Life Healthy Snacks FUN-TECH Coding 1	What's My Shape? You Can't Taste A Pickle With Your Ear Pockets Do Worms Like Snow in April? Fun With Fluids
3rd Grade	Spa Science Crimebusters Nanotechnology1 Chart The Heart Messy Spectacular Science FUN-TECH Coding 1	Pockets Eat Your Math Do Worms Like Snow in April? Fun With Fluids
4th Grade	Spa Science Crimebusters Nanotechnology1 Chart The Heart Messy Spectacular Science	Eat Your Math Sportistics FUN-TECH Coding 2 Spa Science
5th Grade	Nanotechnology1 Photoshop & Sublimation Chart The Heart Messy Spectacular Science	Eat Your Math Sportistics Mythbusters Spa Science FUN-TECH Coding 2
6th Grade	Photoshop & Sublimation Science of Candy Light Up Your World Learn to Code From Scratch FUN-TECH Coding 3	Sportistics Mythbusters Digital Design Nanotechnology2 Spa Science Chemistry of Cooking
	LEGO Robotics	
7th Grade	Photoshop & Sublimation Science of Candy You Spent Your Money on What?! Light Up Your World Learn to Code From Scratch FUN-TECH Coding 3	Mythbusters Digital Design Nanotechnology2 Spa Science Chemistry of Cooking
	LEGO Robotics	
8th Grade	Photoshop & Sublimation Science of Candy You Spent Your Money On What?! Light Up Your World Learn to Code From Scratch FUN-TECH Coding 3	Digital Design Nanotechnology2 Spa Science Chemistry of Cooking
	LEGO Robotics	

Please have participants in all courses wear gym shoes.

STEM Camp 2017

Registration Form

PLEASE PRINT CLEARLY

Please return to WHS by May 26th!

Student Name: _____
First Name Last Name School Child Attends Grade Going Into in Fall

Address: _____
Street City Zip

Parent Name: _____ Phone number: _____

Parent Email: _____ Cell number: _____

Phone Number where parent can be contacted during the time of the camp: _____

Emergency Number (in case parent can't be reached and there is an emergency)

Name	Relationship to child	Phone number
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Please list any food allergies the child has:

Please note: Eat your Math, Science of Candy, Chemistry of Cooking, What's My Shape? and Healthy Snacks classes will deal with campers being exposed to food and being allowed to eat it. Many classes will also have candy.

Does your child require any additional attention that we should know about?

T-Shirt size for your child (please circle): YS YM YL AS AM AL AXL
(Youth or Adult Sizes)

