

# SUMMER SPARK

An exciting new summer program for rising Freshman, Sophomores & Juniors at Shrewsbury High School



Summer Spark is an exciting week-long experience that will take students beyond the walls of a traditional classroom to **AWAKEN** new interests, **INSPIRE** existing passions and **EXCITE** eager minds. It's a summer program like none we have offered before. Each class is rich with hands-on activities, field trips, and engaging instruction, all designed to ignite the spark to learn, discover and, most of all, have fun. At the end of the week, we hope to have inspired students and teachers alike, where students continue pursuing the interests fueled by the depth of their experiences and teachers feel energized by the opportunity to explore a new topic or a different style of teaching.

## Program Offerings

- The Physics of Sports
- Drone Technology - Beyond the Remote Controlled Toy
- Pre College Workshop - Explore College Life

## Program Highlights

- Week of July 8-12
- Classes run 5 days, Monday thru Friday
- 9 am - 3pm at Shrewsbury High
- 15:1 student to teacher ratio
- At least 1 field trip per class
- Cost is \$300 - \$325, depending on the class

Summer Spark is sponsored by the Shrewsbury Public Schools Colonial Fund. The Colonial Fund's mission is to invest in the development of new ideas and initiatives that support the district's strategic priorities. Whether through engaging speakers, funding projects, training teachers or starting a program like Summer Spark, the Colonial Fund continuously strives to help students obtain the skills and knowledge they need for the 21st century.



# PROGRAMS

## **Pre-College Workshop - Explore College Life**

*For students entering 10th & 11th grade, 20 students max*

*Instructors : Mrs. Rice & Ms. Eriole*

*\$325*

**Description** - If you've been thinking about college but are not really sure when or where to start, we would love to have you join us! Experience a week-long introduction to college campuses and the practice of exploration and reflection as it pertains to future plans. Three colleges will be visited: an urban school, a private college, and a local Massachusetts State College or University. Students will see what it's like to go on tours, eat in the dining hall, learn what colleges offer beyond academics, and speak with Admissions representatives. Through the use of icebreakers and exploratory exercises, students will also have time to reflect on their own goals for education and how those goals can be tied to everyday thoughts, behaviors, and choices throughout high school. Journals will be provided to all participants so that students can record their thoughts and impressions throughout the week.

**About Mrs. Rice & Ms. Eriole** - Mrs. Rice is a Nationally Certified School Counselor who has been working at SHS since 2006. In all her spare time, Mrs. Rice can be found running around after her 7 year-old and her 4 year-old twins and binge-watching Netflix shows. Ask Mrs. Rice about her own experience studying abroad in Spain while in college.

Ms. Eriole has worn many hats over her 15 years at SHS, including college counselor, career counselor and now school counselor! She loves a good cup of tea and is always reading a book, just waiting for Game of Thrones to come back in April. Ask Ms. Eriole about her time in Residence Life working as a Resident Assistant in college.

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## **The Physics of Sports**

*For students entering 9th, 10th & 11th grade, 15 students max*

*Instructor: Mr. Patrick Collins*

*\$300*

**Description** - Ever wonder how professional baseball players can throw so fast and hit so hard? Are you amazed at how soccer players can curve soccer balls at will and cyclists can ride with no hands? Want to learn how to run faster, and hit a golf ball farther? Look no further than physics! Understanding how to use physics to your advantage can improve your abilities in whatever sport you play. When it comes to sports, don't *ph*ear physics, it's your *ph*riend!

This course will provide students the opportunity to study the mechanics of sport in the classroom and then apply their knowledge in practice on the playing field. Power, energy, forces, Newton's Laws, inertia, rotation, aerodynamics, and kinematics are all physics concepts that can be more relatable and interesting when students are able to apply these concepts to their favorite sports. The course will provide a knowledge base for all types of students; those who are interested in the Physics, those who play sports and wish to use physics to their advantage to play their sport safely and improve their game, and students who wish to understand sports commentary such as "launch angle", "spin rate", and "leverage".

**About Mr. Collins** - Mr. Collins has always had a passion for science, physics and sports. He grew up playing multiple youth sports, studied physics at Holy Cross and Northwestern and has taught physics classes at SHS for five years. Today, Mr. Collins golfs regularly but his favorite hobby is ultimate frisbee. He plays for a competitive team that travels all along the East coast and parts of Canada. He is also the club advisor and coach for SHS' own Ultimate Frisbee team.

# PROGRAMS

## **Drone Technology - Beyond the Remote Controlled Toy**

*For students entering 9th, 10th & 11th grade, 15 students max*

*Instructor: Mr. Jeremy Mularella*

*\$300*

**Description** - Fascinated with drones? Excited about technology? Let's put the two together! Drones are no longer just those remote controlled toys that are easy to break but hard to keep charged. Today, these unmanned aerial robotic devices (UAVs) are tackling everything from disease control to vacuuming up ocean waste to delivering pizza, and more. Increasingly, drones are being called upon to go where a human cannot, like in search and rescue efforts and providing a bird's eye view for sporting events, real estate and agriculture. Drone technology has significant potential to impact a growing number of industries in the coming years. During this week, students will go beyond the typical tech class and experience building a drone, writing code and testing this emerging technology, in real-world scenarios.

Students will use the engineering design process to create their own 3D printed mini drone. They will learn how to use 3D modeling software and operate a 3D printer. Students will test, evaluate and revise their designs with the goal of creating a full-sized drone they can bring home at the end of the week. (Battery and controller for the drone can be purchased separately). Students will also learn how to safely pilot a DJI Phantom 4 Pro drone. They will use this popular drone to complete different design challenges that emphasize the current and future trends of drone usage in society. Throughout the week, students will learn about aviation terminology, flight physics and current FAA regulations.

**About Mr. Mularella** - Mr. Mularella was the 8 Gold Science teacher at Oak Middle School for many years before taking over the Oak Design Lab class this year. He has transitioned the old "Tech Ed" room into a school makerspace, complete with computers, 3D printers, vinyl cutter, laser cutter, LittleBits Pro Library engineering kit, and updated woodworking tools. In his free time, Mr. M enjoys photography, being outdoors, and traveling. This summer, he's headed to Greece, Italy, and Austria after teaching this class.



## What Will Spark You?

fun energy  
inspiration  
transformation  
motivation  
jolt  
flash

SPARK



# REGISTRATION

Registration for the Spark Summer Program is through the [Powerschool Parent Portal](#). All classes will be held at Shrewsbury High School.

## Registration Instructions:

- Login to "Parent Portal"
- Select "Sports, Activities and Permission Slips" or "Sports and Activities" from the menu on the left
- Select "Summer Spark Program"
- Click on the class you wish to take under the Payment Information column to assign the fee. (Costs per class are listed below)
- Click on "Payment Center" on the left to pay for the classes. *Your spot is not confirmed until payment is received.*
- Return to the "Parent Portal" and refresh your browser
- Return to the Summer Spark Program Registration page
- Click the registration box in the column next to the class you paid for
- At the bottom of the list of classes, click the box that says "Enroll in Summer Spark"
- Your registration should now be complete

*Please note:* You will not receive a confirmation email. To confirm if your child is enrolled, in the "Parent Portal", click "Fee Account Statement" from the menu on the left. If the class is listed and the Balance Due is \$0, then your child is enrolled in the class.

*Registration will be blocked if you have any outstanding fees with the school district. You must pay all past-due fees in order to register for classes.*

## Required Forms:

**ALL students must submit an [Emergency/Health History form](#)** in order to participate in Summer Spark. You can download the form from the Summer Spark website, <https://schools.shrewsburyma.gov/future/summer-spark>.

If your child will require medication while at the Summer Spark program, **please download and complete the [medication order form](#) as well.** (The form can be found on the Summer Spark website, <https://schools.shrewsburyma.gov/future/summer-spark>.) You will have the opportunity to drop off medication with the nurse prior to the start of the program.

Check payment and forms can be mailed to: Summer Spark, c/o SPS Colonial Fund, 100 Maple Ave, Shrewsbury

Program	Cost
Pre-College Workshop: Explore College Life	\$325*
The Physics of Sports	\$300
Drone Technology: Beyond the Remote-Controlled Toy	\$300

*\*The Pre-College Workshop program has a slightly higher fee because there are three off campus trips included with this program as opposed to one off campus trip with every other program.*

*Financial Aid is available to qualifying families.*

If you have any questions, please contact Michelle Biscotti or Kathleen Keohane at [development@shrewsbury.k12.ma.us](mailto:development@shrewsbury.k12.ma.us), or at 508-841-8470.

Summer Spark website, <https://schools.shrewsburyma.gov/future/summer-spark>