



An After-school Enrichment Program

Fall TERM 2017

Grade 1 through Grade 5

Tuesdays and/or Thursdays

Course Catalog

Florence E. Smith STEM School

STEAM PM – Fall Term 2017

3:20 – 4:20

Tuesdays and / or Thursdays

Our fall term of **STEAM PM** offers students in first through 5th grade **engaging enrichment opportunities** where they can continue to explore STEM related topics and the Arts. Courses are designed to promote **Inquiry**, and **our Habits of Mind**.

STEAM PM is overseen by STEM Specialist, Sharon Zajack. Feel free to contact her if you have any questions at (860) 236-3315, ext. 5763 or Sharon_Zajack@whps.org

Frequently asked Questions

Q: When do the courses begin?

A: Courses begin the week of October 24th.

Q: When do the courses end?

A: All of the classes will end the week of December 5th.

Q: How much does a course cost?

A: STEAM PM is **free** to Smith STEM students and is part of our magnet school program.

Q: Is transportation provided?

A: No, adults must come to pick up their child at 4:20 or share information if their child is already enrolled in the *WHEE* afterschool childcare program. Parents should enter the school at the Community Entrance at St. James Street. Doors open at 4:10.

Q: Should I register my child for more than one course?

A: Yes. We encourage you to register for more than one course and list them in the order of preference. However, due to our reduced course offerings, students will be placed in only one course. You will be notified of the specific course when course confirmation notices come out Oct. 18th.

Q: What if I only want my child to have one course?

A: Once again, you are encouraged to register for more than one so that your child has a greater chance of participating in our fall term. **Selecting one course does NOT improve a child's chances to get in a course.**

Q: Can a child enroll in a course that he or she has taken during previous STEAM PM sessions?

A: Yes, but preference will be given to new students first.

Q: How are classes formed?

A: Many factors are reviewed when determining enrollment, such as course preference, repeat enrollment in a specific class, and distribution among the grade levels/ genders intended for the course. When all factors for a group of students are equal, we use a random lottery to determine placement. Course confirmation notices are sent home to let you know which course or courses your child is enrolled in.

Q: What if I miss the due date for registration?

A: All registrations that were received by the due date are processed first. If there is still room available, then students who register late can be added. Due to the large volume of students involved in STEAM PM, October 16th is the final date **for late registrations.**

Q: Can my child bring a snack?

A: We understand that students can be hungry after a full day of school. However, not all children bring a snack, so to have a snack time before the instruction begins takes away from the short time available for learning and fun. Please feel free to bring a snack at pickup time.

STEAM PM Course Registration

The registration form below is **due** on

Thursday, October 12, 2017 .

Students can return this form to their classroom teacher.

Parents will receive a **confirmation notice** about STEAM PM enrollment on **Wednesday, October 18th**.

Please PRINT neatly

Child's Name _____

Grade _____ Classroom Teacher _____

Preference Order	Course name	Course LETTER
1		
2		
3		
4		

Parent / Guardian _____

Cell phone: _____

email: _____



Grade 1 STEM Explorations

Grade 1

Instructors: *Ms. Katie Fournier*, Science Teacher and *Mrs. Sara Novak*, Kindergarten teacher

Maximum class size: 15 students (5 from each first grade class)

From robotics to building, this course combines experiences from 2 former STEAM PM courses – Bee Bots Robotics and Construction Club. Using a lot of critical thinking, problem solving and teamwork, students will learn how to program a Bee Bot to spell their names or find objects on a map course. When the put on their builders’ hats students will use their creativity and problem solving skills to make structures from illustrated plans or their own imaginations.

- **Tuesdays** Oct. 24 – Dec. 5

** *No classes on Election Day, Nov. 7 and Nov. 14th due to Parent/ Teacher Conferences*



Grade 2 STEM Explorations

Grade 2

Instructors: *Mrs. Sharon Zajack*, STEM Specialist and *Ms. Christina Roye*, Building Teaching Assistant

Maximum class size: 15 students (5 from each second grade class)

This course features 3 exciting experiences that involve engineering, building, and chemistry. Using wooden Keva blocks students will design contraptions to make a ball bounce, roll and twist through their creations. In building their contraptions students will explore such science principles as slope, velocity, force, momentum, balance, inertia, and more! In another experience, students will explore some of the technology used by carpenters

- **Tuesdays** Oct. 24 – Dec. 5

** *No classes on Election Day, Nov. 7 and Nov. 14th due to Parent/ Teacher Conference*



WeDo Lego™ Robotics & Coding

Grades 2-3

Instructors: *Mrs. Alison Foley*, Math Specialist and *Ms. Ann Groboski*, ELL teacher

Maximum class size: 12 students

Second and third graders will build robotic models using the WeDo Robotics kit. Come enjoy the excitement and challenge of making and programming a dancing bird or a drumming monkey. Students will learn block-style programming on a computer connected to their robot to tell the robot how to function. Come join the excitement, challenge, and creativity that robotics has to offer!

- **Tuesdays** Oct. 24 – Dec. 5

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The Science of Baking

Grades 3 - 5

Instructors: *Ms. Ruth Luipold*, Curriculum Specialist, *Mrs. Jessica Matthews*, 2nd grade teacher

Maximum class size: 12 students

What's gooey and plump, rises and falls, and tastes absolutely scrumptious? Give up? The correct answer is ... Science! In this class you will learn how to bake some great tasting treats while learning about the science that happens during the mixing of liquids and solids.

(Please note that we will be using foods that contain wheat, soy, and dairy.)

- **Tuesdays** Oct. 24 – Dec. 5

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E **Homemade Spa Products**

Grades 3 - 5

Instructor: *Ms. Courtney Jacklin*, 5th Grade Teacher

Maximum class size: 12 students

Come explore the beauty of chemistry with this course! Students will measure and combine a variety of natural ingredients to create their very own spa products. From hand soaps to lip balm, we will create it all!

- **Tuesdays** Oct. 24 – Dec. 5

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F **Digital Video 101**

Grades 3 - 5

Instructor: *Ms. Adelle Clark*, Parent Volunteer and Technology Teacher at Pathways Academy of Technology and Design

Maximum class size: 8 students

Do you want to learn how to shoot video using an iPad and video camera? Do you want to learn how to edit your work using iMovie? Well, Digital Video 101 will show you how to use proper camera angles and have fun while doing it. In this fun and exciting video class students will learn how to edit a short film using footage filmed in the hallways of Smith STEM. At the end of the course each student will have an electronic copy of the film to share at home. Get ready to be the next Smith Director!

- **Tuesdays** Oct. 24 – Dec. 5

*** No classes on Election Day, Nov. 7 and Nov. 14th due to Parent/ Teacher Conferences*

G Steel Drumming --- The Art of Pan

Grades 3 - 5

Instructors: *Mr. Eric Galm*, Associate Professor of Music and Ethnomusicology Trinity College, and *Mr. James Burnett-Herkes*, Parent volunteer

Maximum class size: 12

The steel drum or pan, as it is called in its native Caribbean, has one of most distinctive sounds of any musical instrument. Learn the history and lore of this unique 20th Century musical instrument while mastering traditional island songs. If students are ready to perform, they will have option of sharing their music at the School Pride Assembly in December.

- **Thursdays** Oct. 26 – Dec. 7

*** No class Nov. 16th due to Parent/ Teacher Conferences*

H Claymation

Grades 3 - 5

Instructor: *Ms. Christina Roye*, Building Teaching Assistant

Maximum class size: 8 students

Students use both their artistic and technological skills to create a clay animation in this STEAM PM class. Students choose a scene from a favorite book, design a “claymation” with polymer clay, and take a series of pictures with an iPad and the StopMotion App. Students add narration, text or music and transform their “claymations” into a short movie.

- **Thursdays** Oct. 26 – Dec. 7

*** No class Nov. 16th due to Parent/ Teacher Conferences*

I The Game of Chess

Grades 3-5

Instructor: *Mrs. Sharon Zajack*, STEM Specialist and Beginning Chess Player

Maximum class size: 14 students

Chess is the world's most popular board game! Whether you already know how to play chess or will just be starting out, let's collaborate to learn moves, develop patience, use problem solving skills, and have fun with chess!

- **Thursdays** Oct. 26 – Dec. 7

*** No class Nov. 16th due to Parent/ Teacher Conferences*

J Engineering with littleBits™

Grades 4 - 5

Instructor: *Mr. Bob Felekey*, studied Engineering at Washington University in St. Louis and is currently a Physical Science Teacher at King Philip Middle School

Maximum class size: 12 students

You've learned the Engineering Design Process. Now let's use it to solve challenges with littleBits™. With these unique electronic building blocks you can:

1. Brainstorm solutions to a challenge
2. Develop a design
3. Build a prototype
4. Test it and
5. Redesign and Improve it.

- **Thursdays** Oct. 26 – Dec. 7

*** No class Nov. 16th due to Parent/ Teacher Conferences*