



STEM ALLIANCE OF LARCHMONT-MAMARONECK 2015-16 CALENDAR OF ACTIVITIES

DATE	EVENT TITLE	DESCRIPTION
Sep. 2015 — May. 2016	Math Clubs at Hommocks Middle School	<ul style="list-style-type: none"> • PRIMARY PURPOSE: Establish after-school math clubs at the middle school level • Developed two clubs to meet extreme demand for after school STEM programming for tweens • Recruited scholarship students and subsidized their fees • Administered and supervised the AMC-8 test – a highly competitive national math challenge - for 34 eager students
Sep. 2015 — May. 2016	STEM Alliance First Lego League Robotics Team & Clubs at Hommocks Middle School	<ul style="list-style-type: none"> • PRIMARY PURPOSE: Lead District's first middle school robotics competitive team as well as a club group for future team development • Hired coaches and student mentors who led sessions twice a week for the team and weekly for the club. • Fostered collaboration and sense of belonging through problem solving and group work to complete challenges • Recruited scholarship students and subsidized their fees • Team earned first place trophy for their innovative project – Write Again pencil recycling machine.
Sep. 27, 2015	Super Moon Lunar Eclipse Viewing with Jupiter Joe	<ul style="list-style-type: none"> • PRIMARY PURPOSE: Create a community learning event around an exceptional astronomy event • Hosted 300 people in Harbor Island Park for a free viewing, access to professional telescopes & a large screen projection of the eclipse
Oct. 2015 – April 2016	Tinkering Nights for Families	<ul style="list-style-type: none"> • PRIMARY PURPOSE: Promote discussion of how to encourage constructive and creative integration of STEM learning through informal activities at home • Events led by STEM Alliance members with several project-based, hands-on STEM and STEAM activities • Expanded programming to include 2 sessions at each District elementary school for older and younger students with their parents

STEM ALLIANCE OF LARCHMONT-MAMARONECK: 2014-15 CALENDAR OF ACTIVITIES (CONT.)

<p>Oct. 2015 — June 2016</p>	<p>MHS Teen Advisory Board</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: Engage high school students to be involved in an advisory capacity to promote STEAM learning and commitment to community service • Regular planning meetings led by students and assisted by STEM Alliance volunteers • Students took leadership roles during Hour of Code, Talk & Tinker Fundraiser and STEM-tastic Saturday 2016
<p>Nov. 12, 2015</p>	<p>Talk & Tinker</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: Fundraiser • Explored the connections between STEM & Art with guest speakers from varied disciplines • Hands-on learning stations for adults to work with Science, Technology, Engineering, Art and Math (STEAM) materials that are available for youth of all ages • Networking event with local STEAM experts, non-profits, parents, members of the high school Teen Advisory Board and District staff members
<p>Dec 7, 2015 – Dec. 13, 2015</p>	<p>Hour of Code</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: Promote computer science education • Nearly 100% student participation across all six District schools in teacher-led learning events • Evening events led by STEM Alliance volunteers let students and parents learn coding together • Partnered with MacInspires, Community Resource Center, local libraries and Boys & Girls Club of New Rochelle to promote free community events • Expanded support to Rye Neck schools
<p>Dec. 18, 2015</p>	<p>Star Wars Sidewalk Astronomy with Jupiter Joe</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: A free “pop-up” learning experience to coincide with the release of the new Star Wars movie • 35 adults and children enjoyed a casual sidewalk astronomy experience with no registration • Attendees enjoyed winter star gazing with telescopes while learning about the effects of light pollution on the night skies
<p>Feb. 10, 2016 & Apr. 4, 2016</p>	<p>Chain Reaction Challenge Workshops at Hommocks Middle School</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: Provide a student and parent tinkering/engineering experience for middle school families • 60 students and parents worked together to build Rube Goldberg Machines over two evening sessions • District staff from various departments participated as Alliance volunteers • Used these workshops to launch a community-wide, large scale Chain Reaction built by 11 teams and run over 66 feet at STEM-tastic Saturday 2016

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<p>Mar. 11, 2016</p>	<p>MHS Talks</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: Provide opportunity for high school students to engage with leading STEM and STEAM experts to learn about career opportunities and paths • 65 experts were featured in small roundtable discussions with seniors at Mamaroneck High School, moderated by district staff and STEM Alliance volunteers • Informal reception gave students an opportunity to speak one-on-one with experts • Engaged high school alumni and other community members to share their experience and passion for their work
<p>Mar. 17, 2016</p>	<p>Learning Residency at MHS with Bubble Artist Jeff Boyer</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: Create a STEAM learning opportunity for high school students with an established artist • Full day learning residency around bubble science (hydrogen bonds & elastomeric solutions) and improv performance. • Over sixty students from chemistry and engineering classes participated • Students then assisted Jeff Boyer with Bubble Workshops at STEM-tastic Saturday 2016 • Program funded through grants from <i>Acorda</i> and <i>ArtsWestchester</i>
<p>May 14, 2016</p>	<p>STEM-tastic Saturday</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: To connect all community members with the joy of constructive inquiry through hands-on STEM learning • A day-long festival of STEM & STEAM learning activities that allowed attendees to experience multiple disciplines by touching, making, building and experimenting at over 70 different on-going activities, workshops and demonstrations. • Experiences included: workshops, performances, vendors, a community exhibit hall and professional exhibitors as well as a Keynote Speech by inventor/artist Bob Partington.
<p>On-Going</p>	<p>Afterschool Programs and STEM Enrichment advising</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: To connect local schools with vendors who can provide quality STEM afterschool programs in schools • Advise local PTAs and other providers (e.g. Libraries) on vendors for STEM enrichment • Preview and price vendors to understand competitive rates & quality of programming • Use our network to facilitate effective contracts, solve hiring issues and bring new programs to the schools

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<p>On-Going</p>	<p>Networking Meetings</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: To continue to grow our network of potential partners who can enhance STEM learning opportunities in our school District and community • On-going attendance at small and large group meetings with numerous local partners such as the Better Business Bureau, universities, businesses, the Chamber of Commerce, the Local Summit and others
<p>On-Going</p>	<p>Newsletter</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: To provide timely and relevant information about STEM programs and opportunities to local families • Regular newsletters go out to a database of over 7,000 local families and staff members to share STEM news, links to one-time events and festivals as well as to celebrate STEM experiences going on in our schools • Additional dedicated e-mail blasts highlight activities that might be of specific interest to subsets of our database such as teachers or STEM experts
<p>On-Going</p>	<p>Research and Posting of Afterschool and Summer Camp Programs</p>	<ul style="list-style-type: none"> • PRIMARY PURPOSE: To connect families with STEM learning resources that are already available to youth • Use STEM Alliance website as a clearinghouse for information about STEM programming – both afterschool and summer camp offerings • Programs can be submitted to our online database by providers or via our volunteers
<p>Partnership</p>	<p>SoundWaters</p>	<ul style="list-style-type: none"> • Public STEM Science Sail • Serve as a media partner to bring the Schooner SoundWaters to our local harbor to make this research vessel accessible to local families • STEM curricula focuses on ecosystems of Long Island Sound, animal adaptations, properties of water, nautical engineering and human impact on the Long Island Sound ecosystem.
<p>Partnership</p>	<p>Women Entrepreneurs Network of Westchester</p>	<ul style="list-style-type: none"> • <i>Dream, Girl</i> Documentary Screening • Film about female entrepreneurs to inspire girls and young women to pursue business leadership • Media Partnership to promote the event
<p>Partnership</p>	<p>Mamaroneck Public Library</p>	<ul style="list-style-type: none"> • <i>Snap & Chat: Robot Make-Overs</i> • 5 day robotics intensive for 7th to 9th grade girls • Part of our Girls in STEM initiative • Led by STEM Alliance members • Program funded in part by a grant from the Westchester Public Library System

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Partnership	K-8 Art Department & Adaptive Design Associates	<ul style="list-style-type: none"> • Professional Development Grant • Helped the K-8 Art Department write a grant to work with Adaptive Design Associates to learn integrated art, design and engineering projects using corrugated cardboard to create assistive devices for disabled individuals • Projects start in the fall of 2016 and will run over multiple professional development modules
Grant	Acorda Therapeutics	<ul style="list-style-type: none"> • Jeff Boyer Learning Residency at MHS • Partial funding for a high school learning residency around bubble science and performing arts. • Included bringing workshops and performances to STEM-tastic Saturday 2016
Grant	ArtsWestchester	<ul style="list-style-type: none"> • Jeff Boyer Learning Residency at MHS • Partial funding for a high school learning residency around bubble science and performing arts. • Included bringing workshops and performances to STEM-tastic Saturday 2016
Grant	Westchester Public Library System	<ul style="list-style-type: none"> • <i>Snap & Chat: Robot Make-Overs</i> • Created a ten hour girls only intensive workshop to entice and encourage girls to try to build and code robots for the first time • Created incentives and curriculum completely focused on attracting girls and maintaining their interest • In partnership with the Mamaroneck Public Library