

## K-12 Out of School Time Opportunities in STEAM

### Elementary School

Grade(s)	Program	Focus	Cost	When
K-5	<a href="#">Science Club for Girls</a> (currently programs are virtual; in-person will be available at some schools in 2022-2023)	Science, engineering, CS, applied math, STEM career pathways, mentorship (NOTE: This program is for girls and gender expansive youth.)	Free	School year
3-5	<a href="#">Cambridge Math Circle</a>	Math, collaborative problem solving	Varies; scholarships available	School year and summer
4-5	<a href="#">Tutoring Plus: Math Plus</a>	Applied math	Free	School year
Rising 2-5	<a href="#">Empow Studios</a>	Coding, robotics, film, animation, Minecraft, engineering	\$839+/week	Summer
pK -12	<a href="#">Full STEAM Ahead</a>	<a href="#">10 asynchronous packages</a> for learners of all ages from MIT	Free	School year / Summer (virtual)
K-12	<a href="#">The Edgerton Center</a>	Engineering and Imaging	Free	School year/ Summer

### Upper School

Grade(s)	Program	Focus	Cost	When
6-8	<a href="#">Cambridge Math Circle</a>	Math, collaborative problem solving	Varies; scholarships available	School year and summer
6-8	BioCoding Club with Broad Institute (for more info contact: Ashley Johnson; <a href="mailto:ajohnson@broadinstitute.org">ajohnson@broadinstitute.org</a> )	Applied computer science and computational thinking, biology	Free	School year
6-8	<a href="#">Innovators for Purpose: iFp Labs</a>	Sparking curiosity by connecting to science and math, design thinking and problem solving	Free	School year
6-8	<a href="#">Science Club for Girls Junior Mentoring Program</a>	Leadership, science, engineering, STEM career mentorship (NOTE: Only for girls and gender expansive youth)	Free	School year

6-8	<a href="#">Tutoring Plus: I Build</a>	Engineering and applied math	Free	School year
6-8	<a href="#">Tutoring Plus: T++ Coders</a>	Coding (Python) and problem solving	Free	School year
Rising 7-8	<a href="#">Summer Camp @ Novartis (1 week program)</a>	Introduction to cell biology and biotech lab skills	Free	Summer 2022 (8/15-8-19)
Rising 6-8	<a href="#">Science Club for Girls: Summer Rocketry Program</a>	Introduction to rocketry and aerospace career paths <b>(NOTE: Only for girls and gender expansive youth)</b>	Free	Summer (3 options for 2 week sessions)
Rising 6-8	<a href="#">Empow Studios</a>	Coding, robotics, film, animation, Minecraft, engineering	\$839+/week	Summer
6-8	<a href="#">Cambridge Science Festival</a>	Public celebration that offers a wide range of STEM related activities, performances, workshops, etc. <b>Over a period of several days in a variety of locations.</b>	Free	School Year (October 3-9) at the Kendall/MIT Open Space!
7-8	<a href="#">SPARK</a> through <a href="#">MIT Educational Studies Program (ESP)</a>	Take classes taught by MIT students about anything and everything.	Program costs \$40 (financial aid is offered)	School year; One weekend in March
Rising 7-12	<a href="#">HSSP</a> through <a href="#">MIT Educational Studies Program (ESP)</a>	A multi-weekend program where hundreds of middle/highschoolers come to take classes, both academic and non-academic, at MIT.	Entire program cost \$40 paid online  *Generous financial aid is available	Spring; Saturday afternoons from February - April  Summer; Saturdays from July -August
7-10	<a href="#">SEED Program</a>	Hands-on courses to new areas of STEM	Free	School year
7-12	<a href="#">DigiGirly</a>	Hands-on computer workshops with Microsoft employees!	Free	School-year
7-12	<a href="#">Innovators for Purpose</a>	Integrating STEAM to create real-projects for real-clients	Free	School-year

### High School

Interested teens should reach out to Nina Nolan, STEAM Internship Coordinator in the Office of Workforce Development ([nnolan@cambridgema.gov](mailto:nnolan@cambridgema.gov)) for support with their applications.

Grade(s)	Program	Focus	Cost	Program Type	When
9-11	<a href="#">CASCADE</a> through <a href="#">MIT Educational Studies Program (ESP)</a>	STEAM topics and mentorship	Free	Classes	School Year, Fall (5 weeks every Saturday )
9-12	<a href="#">Innovators for Purpose: iFp Studios</a>	STEAM and social justice, design thinking and problem solving	Free	Internship	School year, and summer through <a href="#">MSYEP</a>
9-12	<a href="#">Science Club for Girls Junior Mentoring Program</a>	Leadership, science, engineering, STEM career mentorship	Free	Enrichment	School year and some summer
9-12	<a href="#">Summer Exploratory Experience in Design (Sasaki Foundation's SEED Program)</a>	Architecture, Interior Design, Planning and Urban Design, Landscape Architecture, Design Techniques and Processes	Free (and participants receive stipend)	Internship	Summer (6 weeks)
9-12	<a href="#">Sasaki Foundation SEED on-line courses</a>	Architecture, Interior Design, Planning and Urban Design, Landscape Architecture, Design Techniques and Processes	Free	On-line course	All year (virtual)
9-12	<a href="#">SPLASH</a> through <a href="#">MIT Educational Studies Program (ESP)</a>	STEAM Topics	\$40 fee (Financial aid by request)	Classes	School Year, In-person on November 19-20
9-12	<a href="#">MIT BLOSSOMS</a>	150+ STEM lessons and videos for High School students	Free	On-line lessons	All year (Virtual)
9-12	<a href="#">ACE Mentorship Program</a>	Architecture, Engineering, and Construction Management	Free	Enrichment	School Year
9-12	<a href="#">MassRobotics Jumpstart Fellowship</a>	Robotics	Free	Internship	Spring-Summer
9-12	<a href="#">BioStar: Bioengineering Science, Technology, and Research</a>	Bioengineering, 3D Culturing, Cell Staining	Free	Enrichment	Summer

9-12	<a href="#">CyberStart America</a>	CyberStart Games, Cyber Security.	Free	Enrichment	School Year (virtual)
Rising 10-12	<a href="#">Biogen-MIT Biotech in Action: Virtual Programs Summer 2022</a>	Biotechnology, Parkinson's disease	Free	Enrichment	Summer (virtual program--3 options for 2 week sessions)
Rising 10-11	<a href="#">Girls Get Math at Boston University</a>	Math computation and experiments, mentorship	Free	Enrichment	Summer
10-12	<a href="#">Camp Zon</a> (Boston Children's Hospital Stem Cell Program)	Cancer Biology and Blood Development Research	Free (and participants are paid)	Internship	Summer
10-12	<a href="#">Dana-Farber/Harvard Cancer Center</a>	Hands on clinical and cancer research, and nursing	Free	Internship	Summer
10-12	<a href="#">Harvard-MIT Science Research Mentoring Program</a>	Science, computer science, computational thinking, research	Free (and participants receive stipend)	Internship	School year
10-11	<a href="#">High School Health Careers Program (HSHCP)</a> at the UMass Chan Medical School	Biomedical research, Biotechnology, Health	Free	Internship	Summer
10-12	<a href="#">Lincoln Laboratory Cipher Program</a>	Introduction to cryptography, mathematics, and cyber security	Free	Enrichment	Summer
10-12	<a href="#">Microsoft New England High School Summer Camp</a>	Technology, Computer Science	Free	Enrichment	Summer
10-12	<a href="#">NASA Virtual Volunteer</a> - Aviation System Division	NASA Aeronautics, Air Traffic Management (ATM)	Free	Internship	Summer

10-12	<a href="#">ZooTeen Program</a>	Zoology, science education and outreach, animal care	Free (and participants are paid)	Internship	Summer
Rising 12	<a href="#">Broad Summer Scholars Program</a>	Scientific research, STEM career mentorship, science presentation	Free (and participants receive stipend)	Internship	Summer (6 week session)
Rising 12	<a href="#">Lincoln Laboratory</a> at MIT	Building radar systems with engineers and scientists	Free	Enrichment	Summer
Rising 12	<a href="#">Women's technology Program</a> at MIT	Computer Science, Electrical and Mechanical Engineering	Free	Enrichment	Summer
Rising 12	<a href="#">Young Scholars Program</a> at Northeastern University	Hands on research, Science, Engineering, Health Sciences	Free	Internship	Summer
Rising 12	<a href="#">Youth Neurology Education and research Program</a> at Mass General	Neurology, medical research	Free (and participants are paid)	Internship	Summer

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This resource was created by:



For more information go to: <https://www.cambridgema.gov/steam>