

HOPATCONG HIGH SCHOOL
STEAM ACADEMY



Hopatcong School District

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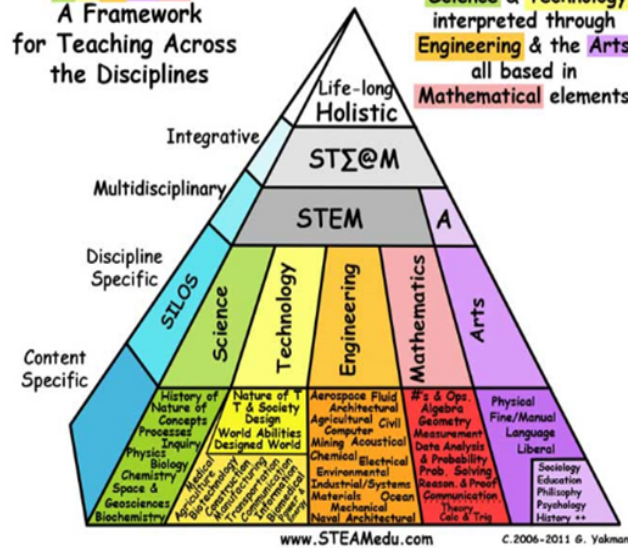


STΣ@M:

A Framework
for Teaching Across
the Disciplines

STΣ@M =

Science & Technology
interpreted through
Engineering & the Arts,
all based in
Mathematical elements.



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Hopatcong High School
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ATTN: STEAM ACADEMY

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STEAM ACADEMY

Established in 2013 by Hopatcong High School to develop talent and leadership in science, technology, engineering, arts, and mathematics, the Hopatcong High School STEAM Academy mission is to inspire and challenge invaluable opportunities to those students who will use their exceptional abilities in the 21st Century.

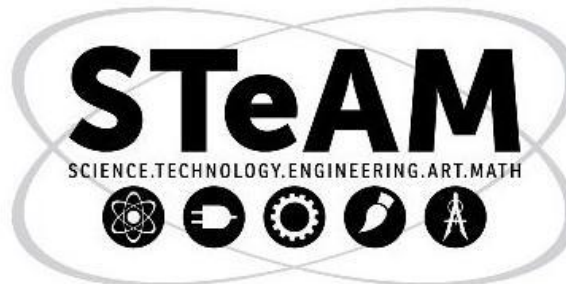
Admission is competitive and selection will be based on performance in previous mathematics and science classes, teacher recommendations and a personal essay. A common Academy application is available in the Guidance Office or at www.hopatcongschools.org/hs/p/guidance/STEM

Mission Statement

Our mission is to ignite and nurture creative, ethical scientific minds that can potentially advance the human condition. The STEAM Academy provides teaching and learning experiences outside of the typical high school curriculum that focus on imagination, inquiry, and interdisciplinary problem-solving to ultimately foster more activity-based instruction. The program also strives to establish small learning communities housed within the larger high school environment, designed to encompass a particular course of study and personalize education through a specific content focus and hand-on experiences with experts in the fields.

OBJECTIVES

- ◇ To meet students' interest in STEAM
- ◇ To offer students a variety of career opportunities and exposure.
- ◇ To increase student awareness, acceptance, and respect for STEAM.
- ◇ To expose students to the importance of our natural environment as it relates to the process of STEAM.
- ◇ To provide students with career exploration and employment skills to become independent lifelong learners & future entrepreneurs.
- ◇ To implement the Common Core State Standards in all disciplines.
- ◇ To have students demonstrate a willingness to take educational risks in exploring their interests.



STEAM RECOMMENDED CURRICULUM

Grade 9

Biology Honors
Algebra I Honors or Geometry Honors

Grade 10

AP Biology or Chemistry Honors
Algebra II Honors
Designing Apps
Video Game Design & Development

Grade 11

AP Chemistry or
Physics Honors or
AP Environmental Science
Pre-Calculus Honors
Principals of Engineering
Independent Study in Lab Assistant or Career Internship

Grade 12

AP Physics or
AP Environmental Science
Calculus AP or Calculus Honors
Independent Study Lab Assistant or Career Internship