Central Middle School
What is STEM

STEM is a means of immersing the learner in the world around them in the following ways:

- PBL- infused authentic learning
- Extended field experiences & inquiry
- Time for students to deeply **explore**, **collaborate** and **innnovate**
- Tools and technology infused lessons
- Transdisciplinary experiences -Cohort
- Collaboration & Dialogue
STEM Opportunities

STEM Experiences
• In the Field Guest Speakers
• Purposeful Field Experiences
• Engineering – Design Challenges
• Science Systems Thinking
• Webinars in STEM Careers
• Clubs & Community Involvement
• Competitions & Contests
STEM Highlights 6th 7th 8th Grades

- 6th Grade – Amphibian Adventures
- 7th Grade – Physics & Eng
- 8th Grade – Changemaker Projects
6th grade Schedule

STEM Saturday Exploration

October: Jug Bay—Environ. Science

November: Adaptations & Biomimicry

January/Feb: Analytics & March Madness

March: Earth & Material Science

<table>
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<tr>
<th>Exp</th>
<th>Trm</th>
<th>Crs-Sec</th>
<th>Course Name</th>
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Virtual STEM Program

STEM 6 & 7

STEM 6:
- Jug Bay Hike & BioCube
- Chemistry in the Kitchen
- HEY - Hands on Electronics for Youth

STEM 7:
- Physics of Remote Controlled Cars
- Engineering of Physics
- Body Systems Guest Speaker

STEM 8
- Changemaker Projects
- Computer Science Guest Speaker
STEM Commitment

- STEM Middle School Commitment Letter
- In order to participate in an Anne Arundel County School Magnet School Program, students and their parents or guardians must understand and agree to the following:

  - **General information for all Magnet Programs:**
  - AACPS Magnet Programs are rigorous programs of study. To remain in the program, the student must meet high standards of academic achievement.
  - The student is expected to remain in the program for the entire academic year. Students will be asked annually to recommit to their chosen magnet program.
  - If a student withdraws from the program, or is not successful in the program, he/she will return to their home school.
  - Bus stops will be consolidated community bus stops, based on the student population. Bus stops may not be located within ordinary walking distances and may have to be supported by private resources. Usually, the consolidated bus stops are located at a nearby library, middle or elementary school in each community.
  - The support and involvement of parents/guardians are required
  - All programs are contingent on fiscal approval of the annual budget.
STEM Requirements

- Summer Bridge (June or July)
- STEM Saturday Explorations (4)
- STEM Family Events – Deliciously Nutritious 2020
- STEM Clubs & Competitions – TSA & Science Olympiad
Clubs – Requirement Participation for 1 Semester

CHOICES!!!

- Drama Club (audition)
- Intramurals (seasonal)
- STEM club
- Vex (try out)
- Sea Perch (try out)
- Math Club
- TSA – Engineering
- TSA – Bio Medical Tech
- Agri STEAM Club
- Diversity Club

CHOICES!!!

- NJArtHS (apply)
- NJHS (apply)
- Student Government
- Yearbook
- Spanish Club
- French Club (8th gr)
- Dance Company (Audition)
- Broadcast Club
- History Club
- Environmental Green Club
Requirements for Applying

**IB, PVA, and STEM/BMAH Applicants**

<table>
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<tr>
<th>When to apply</th>
<th>Middle School Magnets</th>
<th>High School Magnets</th>
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<tr>
<td></td>
<td>Fall of Grade 5 (all)</td>
<td>Fall of Grade 6 (PVA only)</td>
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<tr>
<td>2.5 GPA in Grade 4</td>
<td>2.5 GPA in Grade 5</td>
<td>2.5 GPA in Grade 7</td>
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<td>No D or E in Grade 4^</td>
<td>No D or E in Grade 5</td>
<td>No D or E in Grade 7</td>
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*If you have more than 2 Cs, you must score...
3 or above on the state standardized test, or
2 or above on WIDA (ESOL students, only)*

<table>
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<tr>
<th>World Language^</th>
<th>—</th>
<th>C or above in Level 1 or higher</th>
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<tr>
<td>2 or above on WIDA (ESOL students, only)</td>
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**PVA only**

- Audition Score: 6 or above
- 7 or above

**Notes:**

1. Students must maintain this average (with no D or E and no more than 2 Cs) in Grade 5 for all middle school magnet applicants, Grade 6 for PVA applicants, Grade 8 for all high school magnet applicants, Grade 9 for PVA applicants and Grade 9 and 10 applicants to high school IB DP.
2. All grade requirements need to be met through the entire year students are applying to a magnet program to remain eligible.
3. Not all world languages are offered at all magnet schools. Check with the magnet school to which you are applying (or the magnet website) to note which world languages are offered. Level 1 must be in a world language which is also offered in the magnet high school (see note #4).
4. PVA students who attend Bates Middle School will take Italian. Bates PVA students who apply to a high school IB or STEM program may be required to take a different world language in high school.
Apply

- Applications open October-November
- https://www.aacps.org/stem
- Unweighted Lottery
Questions?

**Central Middle School**
Laura Pinto - AACPS STEM Coordinator for Middle School: 
lpinto@aacps.org/ 410-222-5391

Kristy Fidyk - Central Middle STEM Dept. Chair
Kfidyk@aacps.org

**STEM Middle School Information:** [www.aacps.org/magnets](http://www.aacps.org/magnets)