



Science Technology Engineering Mathematics

Central Middle School







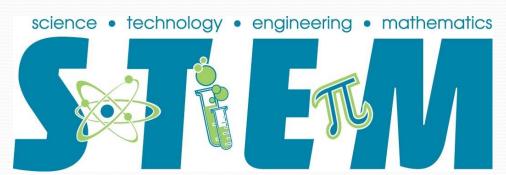
STEM is a means of immersing the learner in the world around them in the following ways:

- PBL- infused authentic learning
- Extended field experiences & inquiry
- Time for students to deeply explore,
  collaborate and innovate
- 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

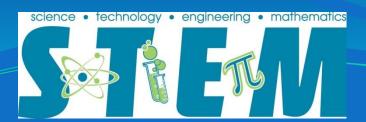
6<sup>th</sup> Grade – Amphibian Adventures

• 7<sup>th</sup> Grade – Physics & Eng

• 8<sup>th</sup> Grade – Changemaker Projects







## 6<sup>th</sup> grade Schedule

Exp	Trm	Crs-Sec	Course Name
1(A-B)	19-20	C06034-9	Science 6
2(A)	S1	G06010-6	True Colors 6 S1
2(A)	S2	M06033-1	Gateway to Tech 6 S2
2(B)	19-20	L06030-4	Physical Education 6 Y
2(B)	Q1	L26040-13	Health 6 Q
3(A-B)	19-20	B06034-6	Social Studies 6
4(A-B)	19-20	D06034-3	Mathematics 6/7
5(A)	S1	D46010-3	Box Score 6 S1
5(A)	S2	X90020-1	STEM Toolkit S2
5(B)	S1	H06010-3	Healthy Life 6 S1
5(B)	S2	R26020-4	STEM Comp & Autom 1 SX
6(A-B)	19-20	A06034-4	English/Lang Arts 6(Y)
7(A-B)	19-20	X51030-3	Student Advisory

#### STEM Saturday Exploration

October: Jug Bay-Environ. Science

November: Adaptations & Biomimicry

January/Feb: Analytics & March Madness

March: Earth & Material Science



## 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

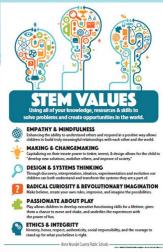
#### STEM 8

- 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

# Clubs – Requirement Participation for 1 Semester

#### **CHOICES!!!**

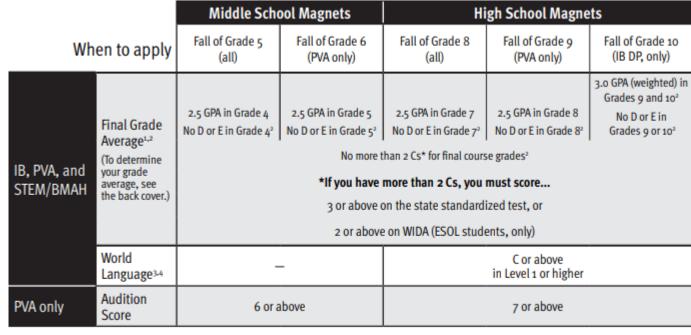
- Drama Club (audition)
- Intramurals (seasonal)
- STEM club
- Vex (try out)
- Sea Perch (try out)
- Math Club
- TSA Engineering
- TSA Bio Medical Tech
- Agri STEAM Club
- Diversity Club

#### **CHOICES!!!**

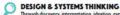
- NJArtHS (apply)
- NJHS (apply)
- Student Government
- Yearbook
- Spanish Club
- French Club (8th gr)
- Dance Company (Audition)
- Broadcast Club
- History Club
- Environmental Green Club

## Requirements for Applying

IB, PVA, and STEM/BMAH Applicants



- solve problems and create opportunities in the world. EMPATHY & MINDFULNESS Enhancing the ability to understand others and respond in a positive way allows children to build truly meaningful relationships with each other and the world. MAKING & CHANGEMAKING
  - Capitalizing on their innate power to tinker, invent, & design allows for the child to "develop new solutions, mobilize others, and improve of society."



- RADICAL CURIOSITY & REVOLUTIONARY IMAGINATION Make believe, create your own rules, improvise, and imagine the possibilities
  - PASSIONATE ABOUT PLAY Play allows children to develop executive functioning skills for a lifetime, gives them a chance to move and shake, and underlies the experiences with the power of fun.
- **ETHICS & INTEGRITY** Honesty, honor, respect, authenticity,: stand up for what you believe is right.

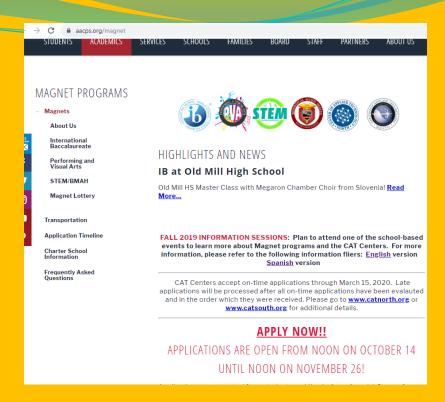
Anne Arundel County Public Schools

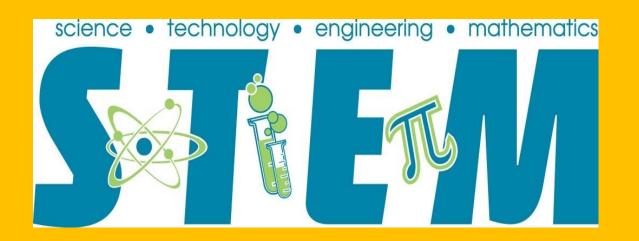
- Students must maintain this average (with no D or E and no more than 2 Cs) in Grade 5 for all middle school magnet applicants, Grade 6 for PVA applicants, Grade 8 for all high school magnet applicants, Grade 9 for PVA applicants and Grade 9 and 10 applicants to high school IB DP.
- 2. All grade requirements 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).
- 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 openOctober-Novemberhttps://www.aacps.org/stem

Unweighted Lottery









STEM Middle School Information: www.aacps.org/magnets

Central Middle School

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