

# Chesapeake High School

1801 Turkey Point Road

Essex, MD 21221

## Academy of Science, Engineering, and Mathematics

### 2023-2024 Assessment Guidelines

*The Academy of Science, Engineering and Mathematics offers three academic pathways in the following areas of study:*

*Project Lead The Way Pre-Engineering: Students solve real-world engineering problems; produce, analyze, and evaluate models of project solutions and digital circuitry using industry-standard computer software.*

*Environmental Science: Students investigate the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, and identify environmental problems both natural and human-made.*

*Mathematics: Students learn mathematics through the use of technology and develop a pure understanding of the connections between Algebra and Calculus. Students explore viable careers in the field of mathematics.*

**BCPS Magnet Transportation Information:** Transportation is provided at community pick-up points only for students who would otherwise attend Dundalk, Kenwood, Overlea, or Patapsco High School.

**Magnet Coordinator(s):** Maggie Cummins (443) 809-0100 mcummins3@bcps.org

**Magnet Showcase Date:** Thursday, October 11, 2022 @ 6 pm

### **Magnet Application Deadline: Friday, November 4, 2022**

Applications can be accessed from the [BCPS Magnet Programs' Web site \(www.tinyurl.com/BCPSMagnet\)](http://www.tinyurl.com/BCPSMagnet) beginning at 12:00 noon on Tuesday, September 13, 2022. Applications must be submitted on or before **Friday, November 4, 2022**. Late applications are not processed.

### **Assessment Overview**

**Magnet assessment formats may be updated as needed based on changes in COVID-19 medical guidance, disease prevalence, and/or vaccination statuses.**

**Assessment Description:** Applicants will complete a multiple-choice Math Test. Applicants will then participate in an interview based on a Portfolio project completed prior to the assessment appointment.

**Assessment Date:** **Thursday, Dec. 8, 2022**  
Applicants with last names A-E @ 4 p.m.  
Applicants with last names F-M @ 5 p.m.  
Applicants with last names N-Z @ 6 p.m.

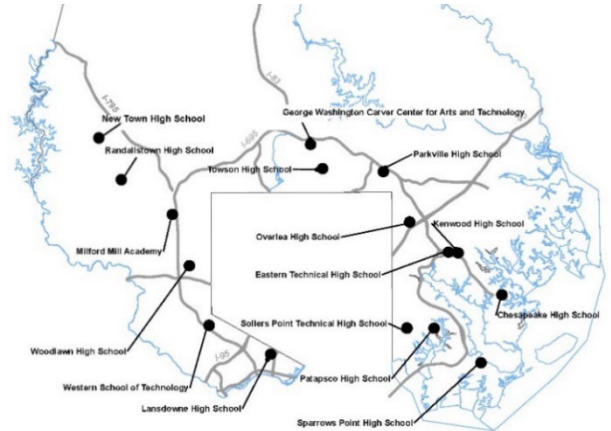
**Inclement Weather Date:** Thursday, Dec, 15, 2022

**Assessment Duration:** 1 hour

# Chesapeake High School Academy of Science, Engineering, and Mathematics Location Directions

From I-95 North or South:

- Exit onto I-695 East toward Essex
- Take the left exit onto Rte 702
- At traffic circle, take 2nd right, staying on Rte 702
- Turn left onto Turkey Point Rd.
- Go through one stop sign
- Chesapeake High will be on the right



**Chesapeake High School  
Academy of Science, Engineering, and Mathematics  
Assessment Components & Self Evaluation**

**Applicants must attend and complete the school-based assessment for the program to which they applied. Failure to attend and complete an assessment will disqualify the applicant and admission into the magnet program will be denied.**

**Applicants may only assess for the program(s) to which they applied. Assessments completed for a program not selected on the application will not be scored.**

**Documented testing accommodations, as appropriate to the assessment, will be provided.**

Evaluation Component	Scoring	My Information	Point Values
Math Enrollment	Above Grade 8 Math=10 pts Grade 8 Math=5 pts Below Grade 8 Math=0 pts	My current math course is: _____ (record math course here)	___ / 10 pts
Grade Average 2.5 (B) average or higher preferred	2.5 (B) average or higher=10 pts each Less than 2.5 (B) average=0 pts each	English/Lang. Arts Avg: _____ Social Studies Avg: _____ Math Avg: _____ Science Avg: _____	___ / 10 pts ___ / 10 pts ___ / 10 pts ___ / 10 pts
Attendance 94% preferred	Total unexcused absences in prior year + Unexcused absences in first quarter/trimester of current year  14 days or less=10 pts More than 14 days=0 pts	Total unexcused absences in prior year (all quarters/trimesters) = _____ days + Unexcused absences in current year (first quarter/trimester only) = _____ days  Total unexcused absences = _____ days	___ / 10 pts
Interview	Applicant may earn up to 20 pts	To be determined on scheduled assessment date	___ / 10 pts
Math Test	Applicant may earn up to 20 pts	To be determined on scheduled assessment date	___ / 20 pts
Portfolio	Applicant may earn up to 10 pts	To be determined on scheduled assessment date	___ / 10 pts
<b>TOTAL</b>			___ / 100 pts

**Academic Evaluation:** The Academic Evaluation is conducted by BCPS Magnet Programs using the applicant's report cards. See below for a description of the grade calculation method. The chart below is for reference only and should not be submitted with assessment or application materials.

# Chesapeake High School Academy of Science, Engineering, and Mathematics

## How to Calculate Grade Averages:

Convert marking period letter grades to points (A=4, P=4, B=3, C=2, D=1, E/F=0).  
Then divide by the number of marking periods.

Alternate grading scales and/or weighted grades will not be used in calculating Grade Averages.

Subject	Last year's Report Card	Last year's Report Card	Last year's Report Card	Last year's Report Card	Current year's Report Card	Total Points	Total Marking Periods (4 or 5)	Grade Average (Total pts ÷ Total Marking Periods)
	1 <sup>st</sup> marking pd. grade/points	2 <sup>nd</sup> marking pd. grade/points	3 <sup>rd</sup> marking pd. grade/points	4 <sup>th</sup> marking pd. grade/points (if applicable)	1 <sup>st</sup> marking pd. grade/points			
English/Lang Arts								
Math								
Science								
Social Studies								

**Lottery Admission Process:** In accordance with Superintendent's Rule 6400, *at the high school level, where the number of qualified applicants exceeds the number of available seats, up to 20% of the seats may first be filled with candidates who achieve a minimum of 80% of the admission criteria and who score the highest scores on the magnet assessments. The remaining seats will be filled using the centralized random lottery selection process from the remaining pool of applicants (see Superintendent's Rule 6400 for more information).*

## Assessment Instructions

### Prior to the Assessment - This **MUST** be completed prior to coming to the assessment.

- Review the pre-assigned assessment date and time (see page 1). Failure to attend the assessment will result in a disqualification from the program. Parents must contact the school by November 14, 2022, if there are scheduling conflicts with other magnet assessments.
- Review the section on Preparing for the Assessment (below).
- Complete the Demonstration of Interest-Portfolio project.

### On the Day of the Assessment

It is the responsibility of the parent(s) to:

- ensure that the applicant attends the assessment on the scheduled date and time.
- contact the schools if scheduled magnet assessment appointments conflict.

***Failure to attend an assessment WILL result in disqualification.***

**Unforeseen Illness or Emergency:** If the applicant cannot attend or complete the scheduled assessment due to an unforeseen illness or emergency, **please immediately contact Chesapeake High School at (443) 809-0100.** Please be aware that assessments will not be rescheduled without documentation verifying the illness or emergency.

**Inclement Weather:** If school activities are cancelled due to inclement weather, magnet assessments will be postponed. Postponed assessments will occur on the designated inclement weather date. All emergency closing and cancellation information will be posted on the BCPS automated information line, (443) 809-5555. Closings and cancellation announcements may also be made through local media.

# Chesapeake High School Academy of Science, Engineering, and Mathematics

## On-Site Registration

- **Arrival:** Report to the Library Media Center at least 15 minutes prior to appointment time.
- **Accompaniment Information:** Applicants should be accompanied by at least one parent. Parents may stay in a designated area during the assessment.
- **Assessment Duration:** 1 hour
- **What to Bring (see Preparing for the Assessment below for details):**
  - Demonstration of Interest - Portfolio project
  - Note: Applicants who do not come to the assessment with the required project will not be allowed to participate in the interview process and may be disqualified

## Preparing for the Assessment

Documented testing accommodations, as appropriate to the assessment, will be provided.

Applicants will complete a multiple choice Math Test. Applicants will then participate in an interview based on the Portfolio they have completed prior to the assessment appointment. Applicants who do not come to the assessment with the required project will not be allowed to participate in the interview process and may be disqualified.

### **Math Test:**

Students will be asked a series of multiple choice questions based on math concepts. To practice, students may review the first six units under Algebra on Khan Academy (<https://www.khanacademy.org/math/algebra>).

### **Interview:**

Applicants will answer questions to demonstrate an understanding of the finished portfolio (see below). Questions will also be asked related to the selected magnet program.

### **Demonstration of Interest—Portfolio:**

Applicants **must** present the **completed** portfolio at the magnet interview. Applicants who do not present the assessment with the required project will not be allowed to participate in the interview process and may be disqualified.

Portfolios will be assessed during the interview portion of the magnet assessment.

Portfolios must include the student's name, current middle school, and contact information (address, phone, email) on the portfolio.

Portfolio requirements are provided on the next page.

**Chesapeake High School**  
**Academy of Science, Engineering, and Mathematics**  
**Portfolio Requirements**

**The magnet academies at Chesapeake High School are looking for students who welcome academic challenges and are focused on their goals for the future.**

Consider your interest in this academy and what qualities, experiences, and goals you possess that will make you successful in it. Create a portfolio that communicates why you want to be a member of this academy at Chesapeake High School.

The portfolio should be a collection of 5-7 artworks/projects/assignments that reflect your interest and suitability for the academy.\*

NOTE: Academy of Arts, Multimedia, and Communications students should also take care to include items that demonstrate the use of art elements and design principles through a variety of media.

Use the guidelines below to help you prepare your portfolio. Be sure that your finished project portrays each of the items discussed below—Personal Qualities, Experiences Related to this Academy, Goals for the Future, and Foundation in Art or Technology.

**Personal Qualities:**

Include personal qualities that you exhibit in your daily life as you pursue your studies, interests, hobbies and extracurricular activities.

**Experiences Related to this Academy:**

Include at least one academic achievement that you were motivated to accomplish (*think about school projects, class activities, awards, etc.*)

Include at least one experience you have had, past or present, which is related to the academy to which you are applying.

**Goals for the Future:**

Identify your career interests and their relationship to the academy to which you are applying.

Include the goals you wish to achieve and how they are related to your career interests.

**Foundation in Art or Technology**

Describe your experience applying the basics of art or technology and how it relates to your project.

*\*If creating a digital portfolio, be sure that it is compatible with your device/computer.*