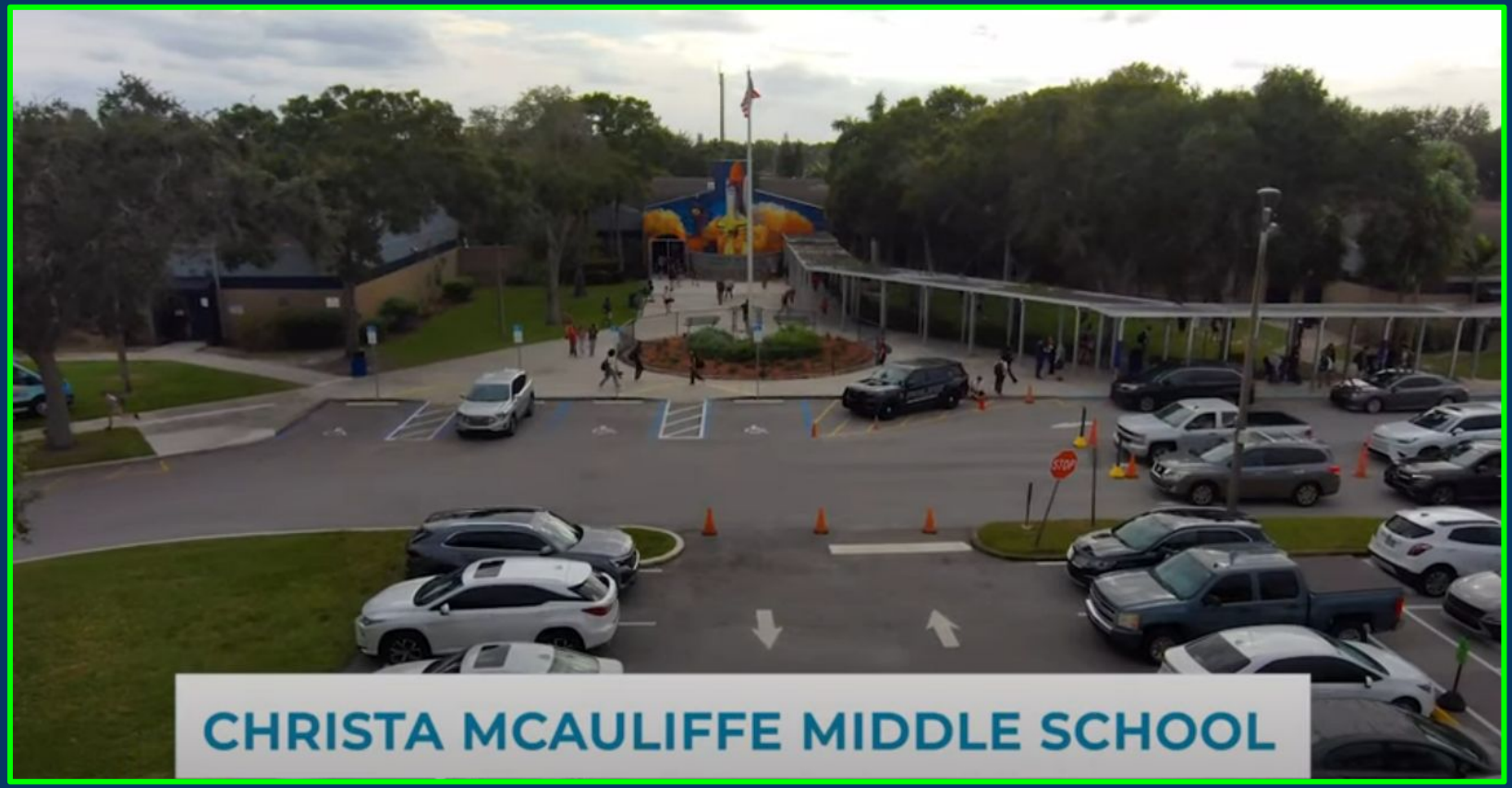
# Christa McAuliffe Challengers

Welcome to

# Course Guide

# Welcome to Christa McAuliffe!




# Where Challengers SOAR!

NEW IN-HOUSE FOR SY26

# PRE-MEDICAL SCIENCES

A three—year preparatory honors program
Emphasizes science, math, and language skills
Preparing students to be highly competitive in
the medical field.

The courses offered include.

- Orientation to Health Occupations
- Exploration of Health Science Professions
- Career Planning and Medical Skills and Services

In the School District of
Palm Beach County
all medical courses
provide local honors credit.

CODING - DESIGN - DEVELOPING

I.C.T.A. ACADEMY

THE PRE—INFORMATION TECHNOLOGY PROGRAM PROVIDES AN INTEGRATED LEARNING ENVIRONMENT FOCUSED ON COMPUTERS, TECHNOLOGY, AND COMMUNICATIONS. STUDENTS GAIN FOUNDATIONAL SKILLS IN PROGRAMMING, SOFTWARE AND WEB DEVELOPMENT, AND EMERGING DIGITAL TECHNOLOGIES, WITH A COLLEGE-PREPARATORY CURRICULUM LINKED TO IT CAREER PATHWAYS.

## OUR ESTABLISHED PROGRAMS

THE PRE—ENGINEERING CURRICULUM OFFERS A HANDS-ON, PROJECT-BASED LEARNING EXPERIENCE FOR STUDENTS IN GRADES 6—8, CONNECTING TECHNOLOGY TO THEIR DAILY LIVES. IT PROMOTES TEAMWORK, COMMUNICATION, AND COLLABORATION, WITH CHALLENGES TAILORED TO ALL ABILITY LEVELS.

ENGINEERING

FINDING REAL-WORLD SOLUTIONS

# Table of Contents!

# Christa McAuliffe Middle School

Nestled in the heart of Boynton Beach, our school has a rich history and is an Information Communication Technology Academy. CMMS also has a plethora of high school credit classes that allow our students the opportunity to excel. We challenge every student to become "1% Better Everyday" and to be the best version of themselves.

# Courses

## By Grade Level


6th
Grade

# 6th Grade Required Courses

## US History:

Primary content emphasis for this course pertains to the study of American history from the Exploration and Colonization period to the Reconstruction Period following the Civil War. Students will be exposed to the historical, geographic, political, economic, and sociological events which influenced the development of the United States and the resulting impact on world history. So that students can clearly see the relationship between cause and effect in historical events, students should have the opportunity to explore those fundamental ideas and events which occurred after Reconstruction.

## English Language Arts:

The purpose of this course is to provide grade 6 students, using texts of high complexity, advanced integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness

Language is integral to exploring and sustaining personal development and cultural identity, and provides an intellectual framework that supports the construction of conceptual understanding.

## Cambridge English:

Learners develop skills and understanding in four areas: reading, writing, speaking, and listening. They will learn how to communicate effectively and respond to a range of information, media, and texts.

# 6th Grade Required Courses

## Math:

Instructional time should focus on six critical areas: (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; (4) developing understanding of statistical thinking; (5) developing understanding of and applying proportional relationships; and (6) developing understanding of operations with rational numbers and working with expressions and linear equations.

Mathematics provides an important foundation for the study of sciences, engineering and technology, as well as a variety of application in other fields.

## Science:

Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course. The National Science Teachers Association (NSTA) recommends that at the middle school level, all students should have multiple opportunities every week to explore science laboratory investigations (labs). School laboratory investigations are defined by the National Research Council (NRC) as an experience in the laboratory, classroom, or the field that provides students with opportunities to interact directly with natural phenomena or with data collected by others using tools, materials, data collection techniques, and models.

# Electives

## Exploratory Spanish

M/J Exploratory Spanish introduces students to the target language and its culture. Students will learn beginning skills in listening and speaking and an introduction to basic skills in reading and writing. Also, culture, connections, comparisons, and communities are included in this course.

## Business Keyboarding

Keyboarding is designed to provide an opportunity to learn to touch type on the computer keyboard using correct techniques as well as the development of speed and accuracy. Students will be introduced to the formatting of personal and business letters, tables, notes, memos, and reports.

# Electives

## Chorus

This is a vocal music course for middle school students who have a desire to learn, sing and perform music. The goal of this course is to teach students the fundamentals of music, help create independence while learning and singing music and to become confident singers and develop an appreciation for music.

Chorus students will also enjoy participating in vocal music, working cooperatively with other students in chorus, and serve the school by participating in performances.

## Band

Students with little or no instrumental experience develop foundational instrumental technique, foundational music literacy, and aesthetic musical awareness through rehearsal, performance, and study of high-quality band literature. Instrumentalists work on the fundamentals of music notation, sound production, instrument care and maintenance, and personal and group rehearsal strategies. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom. This course may also require students to obtain a musical instrument (e.g., borrow, rent, purchase) from an outside source.

# Electives

## Physical Education

The purpose of this course is to provide a foundation of knowledge, skills, and values necessary for the development of a physically active lifestyle. The course content provides exposure to a variety of movement opportunities and experiences which includes, but is not limited to: Fitness Activities, Educational Gymnastics, and Team Sports. The integration of fitness concepts throughout the content is critical to student success in this course and in the development of a healthy and physically active lifestyle.

## Exploring Two-Dimensional Art

Students investigate a wide range of media and techniques, from both an historical and contemporary perspective, as they engage in the art-making processes of creating two-dimensional works, which may include drawing, painting, printmaking, and/or collage. Student artists reflect on their own artwork and that of others through critical analysis to achieve artistic goals related to craftsmanship, technique, and application of 21st-century skills. Opportunities are provided for creative decision-making in the context of the structural elements of art and the organizational principles of design. This course incorporates hands-on activities and consumption of art materials.

# Electives

## Intro to A/V Arts/ TV Production

Intro to A/V Arts is a course that encompasses script writing, filmmaking, footage editing, and news reporting using multimedia technology. Students create and film news segments and features that will be of interest to all CMMS students.

## Exploring Engineering Tech (Academy Only)

The purpose of this 6th grade course is to give students an opportunity to explore the area of engineering technology and associated careers. Students will be given an opportunity to solve problems using a variety of tools, materials, processes and systems.

# Electives

## Orientation to Health Occupations (Pre-Medical)

### CMMS Zoned Students Only

The purpose of this course is to assist students in making informed decisions regarding their future academic & occupational goals and to provide information regarding careers in the Health Science career cluster. The content includes but is not limited to basic information about the kinds of jobs and workers involved the various career paths, financial rewards, occupational hazards, and educational requirements. Information concerning the practices for promoting good health is included.

## Information Communication Technology Essentials (ICTA Academy Only)

This 6th grade course introduces students to core concepts associated with computers and their use. Students will learn basic coding, robotics, problem solving and multimedia skills.


7th
Grade

# 7th Grade Required Courses

## Civics:

The primary content for the course pertains to the principles, functions, and organization of government; the origins of the American political system; the roles, rights, responsibilities of United States citizens; and methods of active participation in our political system. The course is embedded with strong geographic and economic components to support civic education instruction.

Civics is infused with historical, contemporary, geographical, political, social, economic, religious, technological and cultural factors that have an impact on individuals, societies and environments.

It encourages learners, both students and teachers, to consider local and global contexts.

## Math:

Instructional time should focus on four critical area: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples.

Mathematics aims to equip all students with the knowledge, understanding and intellectual capabilities to address further courses in mathematics, as well as to prepare those students who will use mathematics in their studies, workplaces and everyday life.

Mathematics provides an important foundation for the study of sciences, engineering and technology, as well as a variety of application in other fields.

# 7th Grade Required Courses

## English Language Arts:

The purpose of this course is to provide grade 7 students, using texts of high complexity, advanced integrated language arts study in reading, writing, speaking, listening, and language for college and career preparation and readiness.

Language and literature are integral to exploring and sustaining personal development and cultural identity, and provides an intellectual framework that supports the construction of conceptual understanding.

As students interact with a range of texts, they generate insight into moral, social, economic, political, cultural and environmental domains. They continually grow in their abilities to form opinions, make decisions, and reason ethically.

## Cambridge English:

Learners develop skills and understanding in four areas: reading, writing, speaking, and listening. They will learn how to communicate effectively and respond to a range of information, media, and texts.

## Science:

Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course. School laboratory investigations are defined by the National Research Council (NRC) as an experience in the laboratory, classroom, or the field that provides students with opportunities to interact directly with natural phenomena or with data collected by others using tools, materials, data collection techniques, and models.

Laboratory investigations in the middle school classroom should help all students develop a growing understanding of the complexity and ambiguity of empirical work, as well as the skills to calibrate and troubleshoot equipment used to make observations. Learners should understand measurement error; and have the skills to aggregate, interpret, and present the resulting data.

# Electives

## Spanish 1

Spanish 1 introduces students to the target language and its culture. The student will develop communicative skills in all 3 modes of communication and cross-cultural understanding. Emphasis is placed on proficient communication in the language. An introduction to reading and writing is also included as well as culture, connections, comparisons, and communities.

## Digital Discoveries

### (ICTA Academy Only or Admin. Assigned)

Digital Discoveries is an introductory computer science course that empowers students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. In addition to fundamental computer information, the content includes but is not limited to digital technologies associated with problem solving, computer components, internet safety and ethics, web development, animations and games, basic programming techniques, and physical computing.

# Electives

## Chorus

Students build on previous choral experience to expand vocal, technical, musical, and ensemble skills through rehearsal, performance, and study of high-quality choral literature. Singers focus on increasing knowledge of music theory, music literacy, and aesthetic response. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

## Band

Students with previous band experience build on instrumental technique, music literacy, and aesthetic response through rehearsal, performance, and study of a variety of high-quality band literature. Instrumentalists expand their knowledge of music notation, music theory, sound production, and personal and group rehearsal strategies. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom. This course may also require students to obtain a musical instrument (e.g., borrow, rent, purchase) from an outside source.

# Electives

## Physical Education (Team Sports)

This course is designed for 7th grade students and is intended to be 18 weeks in length. The purpose of this course is to develop the physical skills necessary to be competent in many forms of movement, knowledge of team sports concepts such as offensive and defensive strategies and tactics, and appropriate social behaviors within a team or group setting. The integration of fitness concepts throughout the content is critical to the success of this course.

## Health 2

The purpose of this course is to provide students with the opportunity to gain the knowledge and skills necessary to become health literate and practice responsible behaviors to promote healthy living. This comprehensive course focuses on making wise personal decisions and respecting and promoting the health of others.

# Electives

## TV Productions (Intro. Arts, A/V)

Beginning with a broad overview of the Arts, A/V Technology and Communication career cluster, students are introduced to the terminology, careers, history, required skills, and technologies associated with each pathway in the Arts, A/V Technology and Communication career cluster. Additionally, they will be provided with opportunities to acquire and demonstrate beginning leadership skills as well as opportunities for hands-on activities.

## Robotics (Engineering)

### CMMS Zoned Students Only

The purpose of this course is to give students an opportunity to explore the area of robotics technology and its associated careers. Students will be given the opportunity to solve technological problems using a variety of tools, materials, processes and systems while gaining an understanding of the effects of robotics technology on our everyday lives.

# Electives

## S.T.E.M. Science

STEM Environmental Science includes an integration of standards from science, mathematics, and English/language arts through the application to STEM problem solving using environmental sciences knowledge and science and engineering practices. Environmental sciences through applications such as ecosystem management, human-environment impact, ecology, and agriculture, land, and resource management, and civil and environmental engineering are emphasized in this course.

## 2D Studio Art 2

Students investigate a wide range of media and techniques, from both an historical and contemporary perspective, as they engage in the art-making processes of creating two-dimensional works, which may include drawing, painting, printmaking, and/or collage. Student artists reflect on their own artwork and that of others through critical analysis to achieve artistic goals related to craftsmanship, technique, and application of 21st-century skills. Opportunities are provided for creative decision-making in the context of the structural elements of art and the organizational principles of design. This course incorporates hands-on activities and consumption of art materials.

# Electives

## Exploration of Health Occupations (Pre-Medical)

### CMMS Zoned Students Only

The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Health Science career cluster. The content includes but is not limited to exploratory activities relating to all health occupational clusters. The course also includes an introduction to medical ethics, consumerism, and characteristics of health care workers, community health agencies and basic computer literacy.


8th
Grade

# 8th Grade Required Courses

## World History:

The primary content for this course pertains to the world's earliest civilizations to the ancient and classical civilizations of Africa, Asia, and Europe. Students will be exposed to the multiple dynamics of world history including economics, geography, politics, and religion/philosophy. Students will study methods of historical inquiry and primary and secondary historical documents.

## Latin American/Holocaust Studies (HS Credit)

**Latin American Studies:** The primary content emphasis for this course pertains to the study of the chronological development of the Latin American people by examining the history and culture of the region with emphasis on the Caribbean Basin, Central America, and South America.

**Holocaust Studies:** The purpose of this course is for student to think about the use and abuse of power and the roles and responsibilities of individuals, organizations, and nations when confronted with human rights violations. It helps students develop an understanding of the ramifications of prejudice, racism antisemitism, and stereotyping in any society.

## Math:

In grade 8, instructional time will emphasize six areas: (1) representing numbers in scientific notation and extending the set of numbers to the system of real numbers, which includes irrational numbers; (2) generate equivalent numeric and algebraic expressions including using the Laws of Exponents; (3) creating and reasoning about linear relationships including modeling an association in bivariate data with a linear equation; (4) solving linear equations, inequalities and systems of linear equations; (5) developing an understanding of the concept of a function and (6) analyzing two-dimensional figures, particularly triangles, using distance, angle and applying the Pythagorean Theorem.

# 8th Grade Required Courses

## English Language Arts:

This course defines what students should understand and be able to do by the end of the grade level. Knowledge acquisition should be the primary purpose of any reading approach. The systematic building of a wide range of knowledge across domains is a prerequisite to higher literacy. At this grade level, students are building their facility with rhetoric, the craft of using language in writing and speaking, using classic literature, essays, and speeches as mentor texts.

## Cambridge English:

Learners develop skills and understanding in four areas: reading, writing, speaking, and listening. They will learn how to communicate effectively and respond to a range of information, media, and texts.

## Science:

8th graders will learn about the physical and chemical properties of matter and the difference between mass and weight. They will also discuss the relationship between density, mass and volume. Additionally, students investigate atomic theory, particle motion and groups in the periodic table.

Also, the Florida Science Standards cover four bodies of knowledge, which are:

- Nature of Science
- Earth and Space Science
- Physical Science
- Life Science

# Electives

## Spanish 1

Spanish 1 reinforces the fundamental skills acquired by the students in Spanish 1. The course develops increased listening, speaking, reading, and writing skills as well as cultural awareness. Specific content to be covered is a continuation of listening and oral skills acquired in Spanish 1. Reading and writing receive more emphasis, while oral communication remains the primary objective. The cultural survey of the target language-speaking people is continued.

## Spanish 2

Spanish 2 reinforces the fundamental skills acquired by the students in Spanish 1. The course develops increased listening, speaking, reading, and writing skills as well as cultural awareness. Specific content to be covered is a continuation of listening and oral skills acquired in Spanish 1. Reading and writing receive more emphasis, while oral communication remains the primary objective.

# Electives

## Health 4

The purpose of this course is to provide students with the opportunity to gain the knowledge and skills necessary to become health literate and practice responsible behaviors to become healthy, productive citizens. This comprehensive course focuses on the development of positive lifelong knowledge, attitudes, and behaviors, which promote an active and healthy lifestyle.

## Band

Students with previous band experience expand on their instrumental technique, music literacy, and aesthetic response through rehearsal, performance, and study of a variety of intermediate-level, high-quality band literature. Instrumentalists extend their knowledge of music notation and theory, sound production, and personal and group rehearsal strategies. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom. This course may also require students to obtain a musical instrument (e.g., borrow, rent, purchase) from an outside source.

# Electives

## Physical Education (Ind/Dual Spt)

The purpose of this course is to develop the physical skills necessary to be competent in many forms of movement, knowledge of offensive and defensive strategies, tactics, and appropriate social behaviors within both competitive and noncompetitive activity settings. The integration of fitness concepts throughout the content is critical to student success in this course and in the development of a healthy and physically active lifestyle.

## Chorus

Students with previous choral experience build intermediate-level knowledge of vocal technique, musical literacy, ensemble skills, and related musical knowledge through rehearsal, performance, and study of a variety of high-quality 2-, 3-, and 4-part choral literature. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

# Electives

## Exploration of Production Technology (Engineering)

### CMMS Zoned Students Only

The purpose of this course to provide information regarding careers in the Engineering and Technology Education career cluster. The content includes, but is not limited to, providing the opportunity to solve technological problems using a variety of tools, materials, processes and systems while gaining an understanding of the effects of production technology on our everyday lives. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.

## Journalism/Yearbook (HS Credit) Admin. Assigned

The purpose of this course is to enable students to develop fundamental skills in the production of journalism across print, multimedia, web, and broadcast/radio platforms and to develop knowledge of journalism history, ethics use, and management techniques related to the production of journalistic media.

This course will also assist in the production of our school yearbook and newsletter.

# Electives

## Intro to A/V Arts

The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Arts, A/V Technology and Communication career cluster. The content includes, but is not limited to, technology literacy; the importance of Arts and A/V technology; the role of science, math, reading, writing, history, and technology in the Arts and A/V; and digital media. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.

## Advanced IT
### (ICTA Academy Only)
### (HS Credit)

In this course, students will become familiar with the basic principles of a personal computer, including the internal hardware, the operating system, and software applications. Students will gain practice in using key applications such as word processors, spreadsheets, and presentation software, as well as understanding social and ethical issues around the Internet, information, and security. Throughout this course, students will focus on the fundamentals, learning and using the applications, and understanding the basic roles and responsibilities of the software, hardware, operating system, gathering data, analyzing data, and on using the right tools and methods to collect and present data.

# Electives

## Cambridge Science

Students will think scientifically and develop practical skills alongside knowledge and understanding, which is vital for explaining the world around us. This approach provides them with the knowledge and skills they require to excel at science in later stages of education and to make informed choices, including considering sustainability issues and meeting the challenges facing our environment.

## Christa McAuliffe News Network (Admin Approved)

Students will learn the fundamentals of journalism, story-boarding, scripting, lighting, and equipment set up. Students will demonstrate an understanding of control room operations, such as super-imposing, operating internal key sources, chroma key applications, and altering key colors. Students will also demonstrate an understanding of video editing skills by learning hands-on with professional nonlinear editing software. This program will be journalism intensive the first year so that students have a strong writing background, before moving to skills regarding camera systems, operations, sound, graphics, editing, lighting and staging. This course provides team oriented experiences with production as the goal. This strong writing and production program will support rigor in academic Language Arts courses.

# Electives

## Medical Skills and Services (HS Credit)

### CMMS Zoned Students Only

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Health Science career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Health Science career cluster.

## Cybersecurity

### (Admin Approved)

This program offers students an opportunity to begin a pathway to prepare for in-demand careers, stressing personal accountability and the importance of taking proactive steps to enhance cybersecurity at work and at home. This course provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and cybersecurity-related careers. The curriculum includes, but is not limited to, foundational knowledge and skills in computer and network security, security vulnerabilities, attack mechanisms and techniques, intrusion detection and prevention, risk identification, incidence response, access control, and recovery. This specialized course focuses on database security, planning and analysis, software, and web security.

# Electives

## African American History (HS Credit)

Students will study the vital contributions of African Americans to build and strengthen American society and celebrate the inspirational stories of African Americans who prospered, even in the most difficult circumstances.

## 2D Studio Art 3

Students investigate a wide range of media and techniques, from both an historical and contemporary perspective, as they engage in the art-making processes of creating two-dimensional works, which may include drawing, painting, printmaking, and/or collage. Student artists reflect on their own artwork & that of others through critical analysis to achieve artistic goals related to craftsmanship, technique, & application of 21st-century skills. Opportunities are provided for creative decision-making in the context of the structural elements of art and the organizational principles of design.

# High School Credit Classes

Available in

7th and 8th grade

# High School Credits

- Algebra 1
- Geometry
- Spanish 1
- Spanish 2
- Latin American History
- Holocaust Studies
- African American History
- Physical Science
- Medical Skills & Services
- Advanced IT
- Exp. Tech. Design
- Journalism/Yearbook
- T.V. Production Tech
- Cybersecurity

# High School Credit: Math

## Algebra 1 Honors:

In Algebra 1, instructional time will emphasize five areas: (1) performing operations with polynomials and radicals, and extending the Laws of Exponents to include rational exponents; (2) extending understanding of functions to linear, quadratic and exponential functions and using them to model and analyze real-world relationships; (3) solving quadratic equations in one variable and systems of linear equations and inequalities in two variables; (4) building functions, identifying their key features and representing them in various ways and (5) representing and interpreting categorical and numerical data with one and two variables.

## Geometry:

In Geometry, instructional time will emphasize five areas: (1) proving and applying relationships and theorems involving two-dimensional figures using Euclidean geometry and coordinate geometry; (2) establishing congruence and similarity using criteria from Euclidean geometry and using rigid transformations; (3) extending knowledge of geometric measurement to two-dimensional figures and three-dimensional figures; (4) creating and applying equations of circles in the coordinate plane and (5)developing an understanding of right triangle trigonometry.

# Cambridge English

In our Cambridge ELA courses, learners develop skills and understanding in four areas: reading, writing, speaking, and listening. They will learn how to communicate effectively and respond t a range of information, media, and texts to:

- become confident communicators, able to apply all four skills effectively in everyday situations.
- see themselves as readers, engaging with a range of texts for information and for pleasure, including texts from different times and cultures.
- see themselves as writers, using the written word clearly and creatively for a range of different audiences and purposes.

# Choice Programs

- Pre-Information Technology
- Pre-Engineering
- Pre-Medical (In-House Only)
- Cambridge (In-House Only)

# Pre-Information Technology (ICTA)

The Pre-Information Technology Academy offers an innovative, integrated learning environment focused on computers, technology and communications. Students who participate in ICTA acquire foundational knowledge and skills in basic programming techniques, software and web development, and emerging digital technologies. Emphasis is placed on a college preparatory curriculum directly linked to career pathways in the IT career cluster.

# Pre-Engineering

Affordable housing design. Biofuel production. App development. These are all hands-on, real-world challenges students will face in our Engineering courses. Throughout the program, students step into the varied roles engineers play in our society, discover new career paths and possibilities, and develop engineering knowledge and skills. In addition, as students work in teams to design and test solutions, they're empowered to develop transportable skills like collaboration, critical thinking, and communication.

# Pre-Medical

Our pre-medical students get early exposure to various health occupations and gain valuable career skills in first aid and CPR, anatomy and physiology, employability, professional standards, ethics, and hands-on skills and services in this three year preparatory program.

Pre-Medical Academy students take a medical elective each year, to explore health care occupations and anatomy. Hands-on activities, simulations, guest speakers, and virtual job shadowing further students' exposure to health care professions. The eighth grade medical elective earns high school elective credit.

# Course Selection

## How Do I make my choices?

## Main Courses

Course Levels for your main courses will be based on teacher recommendation, choice selection, and FAST Scores.

## Electives

Elective choices will be made in SIS, once you have had your grade level meeting with our Guidance Team. Some electives are determined by your choice selection.


Sports,
Clubs, &
Activities

# Sports

- Baseball
- Softball
- Volleyball
- Basketball
- Soccer
- Track
- Intramural Flag Football
- Cheerleading
- Intramural Bowling
- Intramural Golf
- Intramural Disc Golf

# Clubs/Activities

- Chess Club
- Art Club
- Garden Club
- Environmental Club
- Battle of the Books
- SECME
- Animal Rescue Club
- Robotics Club
- Student Council
- Academic Games
- N.J.H.S.
- First Priority
- Special Olympics
- Spelling Club
- Student Voice Club

# Program Recap

## In-Boundary & Out-of-Boundary

- Pre-Information Technology
- Pre-Engineering

- **Must apply through the Choice Program Dashboard.**

- **Deadline to apply is January 31.**

- Seats for both programs will be awarded through the Lottery and families will be notified after Spring Break.

## In-Boundary Only

- Pre-Medical Sciences

- Will be an elective choice listed on the Elective Selection Sheet shared later in the year.

- FAST PM3 scores will be used to determine participation in this in-boundary program.

## In-Boundary Only

- Cambridge (Pre-AICE)

- FAST PM3 scores will be used to determine participation in this in-boundary program.

# CHALLENGERS S.O.A.R