



Rockledge Cambridge Program NEWSLETTER



January 2023

Important Upcoming Dates

- **ACT Test** - Feb 11, April 15, June 10
- **SAT Test** - March 11, May 6, June 3

- **January 10, 2023 - Retake Scores from fall Cambridge testing will be available**
- **RHS Registration**
- **February 2, 2023 - RHS Showcase**

A New Semester Begins

On January 10, students officially start the second semester of the school year. For some, the change to second semester doesn't impact your schedule as all of your classes are year-long courses. For others, the new semester brings new courses with new teachers and new classmates. In either case, the second semester is a time for you to start anew.

No matter how you performed during the first semester, the second semester is an opportunity for you to make any changes you might need in your study and time management skills as well as your performance on homework assignments, classwork, and tests and quizzes. Now is the time for you to evaluate your progress towards your goals for the school year and make any needed adjustments.

One of the most important things to remember is that everything in high school counts. Every grade in every class, no matter whether it is a required course or an elective course affects your GPA. And, for students taking courses through EFSC, it is important to remember that grades in those courses not only affect your high school GPA but also your future college GPA.

There are several options for tutoring available on campus, and you are encouraged to make use of these opportunities. Students are also reminded of the importance of talking with your teachers, particularly when you are struggling or don't understand assignments. For those who plan to take college or university classes after high school, understanding how you best learn and how to handle academic adversity is an invaluable skill to develop now.

Contracts, Accommodations, & Testing...OH

MY!



The start of second semester means that the end-of-school year testing for Cambridge is rapidly approaching. While most courses have test dates that start in late April and run through the month of May, a few Cambridge classes will have testing that takes place in early April and some classes have project-based assessments that students will be working on throughout the semester.

Soon, students will be bringing home their Cambridge program testing contracts. These annual contracts outline the Cambridge testing policies and do require both student and parent signatures. One of the most important parts of the Cambridge testing contract to note is that students enrolled in AICE courses are required to take the AICE tests in those courses. Students who miss an AICE test will be required to pay for the cost of the exam (approximately \$110). If a student is considering a downphase in an AICE course, it is imperative that the student contact both their guidance counselor and Mrs. Matthews to discuss that option. While pre-AICE testing is optional, students who sign up to take the pre-AICE exams for their classes are bound by the same testing contract as students in AICE classes.

Some students will also bring home a testing accommodations consent form. For students with IEPs or 504 plans, this consent form must be signed by parents to grant permission for Mrs. Matthews to apply for the appropriate testing accommodations for Cambridge exams. If this consent form is not returned to Mrs. Matthews by January 20, 2023, she will not be able to apply for testing accommodations.

Teachers in Cambridge courses will spend class time this semester ensuring that students know the structure of the pre-AICE and AICE exams they will take, and their teachers will also familiarize students with the mark schemes (rubrics) for each exam. Students will be practicing essential skills for these exams in their classes, and it is recommended that students begin independently reviewing for these exams regularly each week by reading through and revising their notes, forming study groups with other students in their classes, and using the resources available on the Cambridge classes Resource page of the RHS website. Many of the Cambridge teachers will be giving mock exams and timed practice assignments this semester, and students need to use these activities to help them figure out their areas of strength and areas where improvement is needed before the Cambridge exams begin.

Come see what Rockledge High has to offer your family!

ROCKLEDGE HIGH SCHOOL SHOWCASE NIGHT

Thursday February 2nd, 2023

6:00 - 7:30 PM

RHS Gymnasium

Programs in Attendance

BETA Club - Bowling - Cambridge
- CTE - Drama - Golf - Maritime -
NHS - Nutrition & Food - SGA -
Team Pink Robotics - Swim -
Web Design- Wrestling - & many
more!

The RHS Showcase is a great opportunity for both current and future students to see all that Rockledge High has to offer. Our choice programs, elective classes, extracurricular activities, and sports teams will have representatives available to share information with you and answer any questions you might have for them.

This is a chance to talk with students about their experiences at RHS and find out what it means to be filled with RAIDER PRIDE.

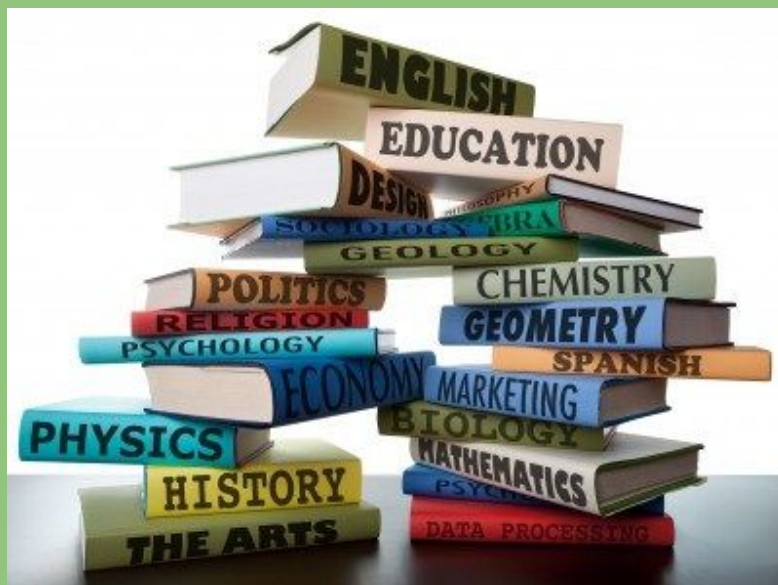


In addition to preparing for spring testing, second semester will also bring registration for next year's classes. You will want to make sure you listen to (or read) the announcements each week so that you know when the dates for registration are released. This year, you will likely select the classes you want to take next year via your FOCUS account.

As you think about which courses to register for, you want to consider which classes you need for high school graduation, and if you are going for your AICE Diploma, you want to consider which classes you need to take for that as well. You also want to consider your future career goals and see if there are courses offered at RHS that might be beneficial to you in meeting those goals. For instance, if you are considering a future career in the medical field, classes like Anatomy and Physiology or AICE Biology or Medical Terminology are ones you want to think about adding to your schedule.

Your guidance counselor and the Cambridge coordinators, Mrs. Krajewski and Mrs. Matthews, are invaluable resources to contact as you make decisions about which courses to take and to get questions answered about the best options for you. Now is also the time to talk to other students who are taking the classes you are considering. Get their impressions of the course curriculum, find out how much homework you might have in the course, and learn about the types of assignments and assessments you will take.

The selections you make during registration are important. Take your time to thoughtfully consider how you can use your time at RHS to help you achieve all you want in the future.



Which



Is Right For You?

With registration for next year approaching, it is time to start thinking about which Cambridge Pre-AICE and AICE classes you might want to take. For some, choosing classes depends on what you need to meet the requirements for the AICE Diploma. For others, you are simply looking for a Cambridge Pre-AICE or AICE class that interests you, one that will challenge you and perhaps even help you in your future career.

There are many courses to choose from within the Cambridge program. Whether you are looking for a MESH course or an elective, there is something for you. To help you in your selection process, below are some quick descriptions of each of the Cambridge Pre-AICE and AICE classes you might choose to register for when that process begins. And remember, you can always talk to your counselor, the current teachers of the courses, or one of the Cambridge coordinators, Mrs. Krajewski or Mrs. Matthews for help in selecting courses for your schedule.

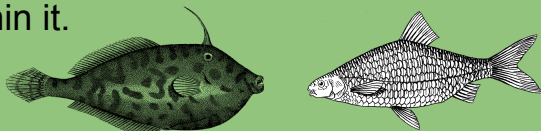
AICE Science Courses

AICE Biology - Biology is a fascinating subject in which you will learn about the natural world and all the living things within it. If you want to develop a better understanding of the mechanics of the natural world and enjoy lab practicals, then AICE Biology is a good choice for you.

AICE Biology builds on skills learned at the pre-AICE level as you study the cell as the unit of life, biochemical processes, DNA, natural selection, and organisms in their environment. This course is a good one for those who are interested in possible careers in the medical field.

AICE Marine Science - The AICE Marine Science class provides a stimulating introduction to the science of the marine environment.

Ideal for students who want to study Marine Biology or a related environmental science major, AICE Marine Science allows you to study the science of water and the organisms that live within it.



AICE Environmental Management - For those with an interest in learning about and understanding of global environmental issues as well as strategies for managing and sustaining the environment, AICE Environmental Management is a class to take..

You will interpret and analyze data and do investigative work as you work to develop potential solutions to environmental issues that are currently impacting our local community and the world.



AICE Physics - Our AICE Physics course helps students to understand the behavior of the universe. As you study models of physical systems, forces and fields, matter, energy, and waves, you will quickly see that math is a problem-solving tool integral to physics.

If you are interested in an engineering career, you should consider this course that builds on the skills learned in pre-AICE physics.

AICE English & Language Courses

AICE General Paper - The AICE General Paper class is one that is recommended for all Cambridge students. With a focus on analyzing opinions and learning how to construct arguments, this course helps develop your writing skills and your ability to present a point of view clearly.

During the course of the year, you will study a wide range of current events and topics and use what you learn to develop your own opinions and arguments.

Skills developed in AICE General Paper are transferable to every AICE class offered at RHS.

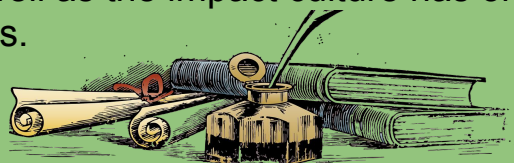
AICE English Language - Our AICE English Language class revolves around communication. You will consider why texts are written the way they are, read and analyze a variety of writing styles, and consider the effect an audience has on a piece of writing.

In addition, you get to write creatively in many different forms, branching out from traditional essays to consider the many ways in which writers share their ideas.

This course will challenge you to think carefully about decisions you make in your writing while encouraging creativity.

AICE Literature In English AS Level - With a focus on analyzing literature from different periods and cultures, the AS Level of the Literature in English class provides you with an opportunity to study literary texts from a critical analysis perspective.

You will read literary classics such as The Adventures of Huckleberry Finn, plays by various playwrights including Tennessee Williams and William Shakespeare, and study 18th and 19th century poets. Building on the skills developed in AICE English Language, you will explore character and theme as well as the impact culture has on literary texts.



AICE Literature in English A-Level - After taking AS Level Literature in English, you can continue to develop your literary analysis skills with the A-Level course.

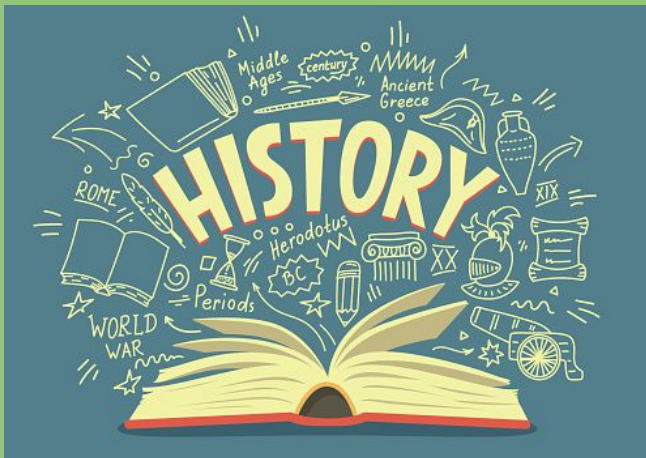
In the A-Level, you will study Shakespeare and 20th century plays as well as study poetry and prose from both the pre-19th century and post-19th century. Authors such as Geoffrey Chaucer, Jean Rhys, Jane Austen, and James Joyce are just a few of those you might read, discuss, and analyze at this level.

Your exploration of how and why literary texts are developed as they are will continue in this class as you also focus on developing the depth of your literary arguments.

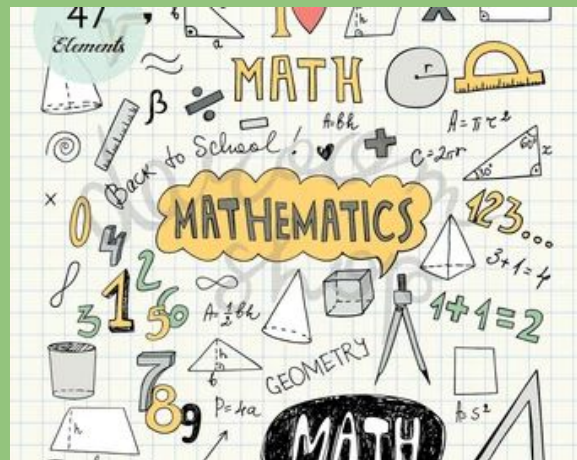
AICE Spanish Language - If you are interested in developing your Spanish language proficiency and develop practical communication skills in Spanish, then AICE Spanish Language is the right course for you. In AICE Spanish Language, you will learn more about and engage with the cultures of countries and communities where Spanish is spoken.

As you build your knowledge of Spanish vocabulary and grammar, you will grow stronger in your listening, reading, writing, and speaking of the language. This course will develop your confidence in using the language you're learning in a variety of situations and settings.

It is recommended that students take at least through Spanish 3 before taking this class.



AICE History & Math Courses



AICE U.S. History- Martin Luther King Jr. once said, “We are not the makers of history. We are made by history.” Our AICE U.S. History class provides you with an opportunity to participate in an in-depth study of the history of the United States from 1820 - 1941. You will focus on not only gaining historical knowledge but also developing the skills necessary for historical research. This course will ask you to consider the impact of historical events on modern society and analyze their significance to our country today.

As you study the origins of the Civil War, the Civil War and Reconstruction, the Gilded Age and Progressive Era, the Great Crash, the Great Depression, and the New Deal policies, you will be exposed to a variety of historical texts including political cartoons.

AICE Math AS Level -

Math plays an increasingly essential role in not only our everyday lives but also in the corporate world. The AS-Level Math class will help you develop a logical approach to problem-solving as you develop your mathematical knowledge.

Our AICE AS Level Math class is a unique blend of algebra, geometry, calculus, and statistics. From quadratics to permutations, the content of the class will challenge you to develop a range of mathematical skills, particularly those you will use in everyday situations.

AICE European History -

Like the AICE U.S. History class, the AICE European History course aims to help you understand that history is more than just remembering people, key events, and dates. As you study Modern Europe from 1750 - 1921 in this course, you will explore how and why certain events occurred and consider their lasting impacts on today’s world.

Topics covered in the course include France from 1774 - 1814, the Industrial Revolution in Britain from 1750 - 1850, liberalism and nationalism in Germany from 1815 - 1871, and the Russian Revolution from 1894 - 1921.

AICE Math A-Level -

After taking the AS Level Math class, you can take our A-Level Math class which will allow you to further develop the depth of your mathematical knowledge. A-Level Math is one of the most popular courses in the world taken by students.

Many of the concepts learned in A-Level Math will help you in your other Cambridge classes, particularly the AICE sciences. The statistics topics covered in the class use real-world data points and help you understand how to work with and interpret that information.

AICE Global Perspectives - Our world is rapidly changing and being able to think critically and consider alternative viewpoints are essential skills all students need to develop. AICE Global Perspectives is a course that will ask you to look beyond Rockledge and Brevard County to consider a variety of topics that are of global significance.

You will develop your research, reasoning, and communication skills in this course as you analyze and evaluate arguments and identify global problems and create solutions to them. This class is one that every college-bound student should take as it teaches many of the essential skills that professors will expect from their students.

AICE Business - AICE Business is a great choice if you are interested in the world of commerce and entrepreneurship. This course will prepare you for university courses in the fields of business and management, and will equip you with the know-how for starting up your own business or pursuing a career in finance, accounting, or marketing.

While in this class, you will analyze various business scenarios, identify key issues facing businesses, and make recommendations as to what approach the business should take to achieve its objectives.



AICE Electives



AICE Psychology - Psychology explore why we behave the way we do. It helps us to understand the human mind and gives us insight into the motives behind our actions.

AICE Psychology answers common questions like “What is psychology?” and “Is psychology a science?” as you explore the social, cognitive, and developmental psychology. While in this class, you will focus on 12 psychology studies and discuss the approaches of the researchers as well as the application of psychology to everyday life.

While in AICE Psychology you will debate the use of children and animals in psychological research and the principles of nature versus nurture.

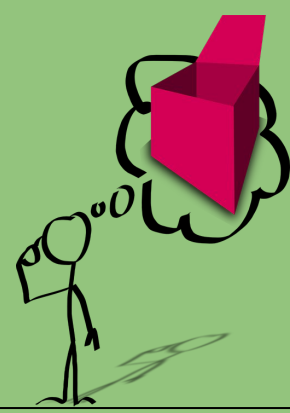
AICE Sociology - Sociology is the study of our social origins - it helps us to understand how race, class, and gender play a role in society.

In AICE Sociology, you will analyze the links between health, nature, poverty, and welfare. You will study how people interact with each other and learn about the importance of social structure in tackling social problems.

This course will ask you to analyze who you are and your place in society and will allow you to study the impact of social, cultural, and political issues on individuals.



AICE Electives



AICE Information Technology- In our ever-evolving world, knowing and understanding how to use technology to communicate and present your ideas effectively is an invaluable skill. AICE Information Technology offers you the opportunity to learn how to create spreadsheets and databases, edit sounds and video clips, write algorithms, and identify forms of malware and their effects.

As a part of this course you will also explore how the use of technology changes and affects workplaces and gain some exposure to the fundamentals of programming.

AICE Thinking Skills - Do you like logic puzzles? Do you enjoy solving complicated problems that require you to sift through information to determine what's important and what's not? Do you like to argue and want to learn how to construct evidence-based arguments? If you answered yes to these questions, then AICE Thinking Skills is the right class for you.

AICE Thinking Skills will challenge you to think critically as you analyze unfamiliar problems, devise problem-solving strategies, and evaluate evidence presented to you. Future lawyers, analysts, and those who simply want to win any argument they are involved in should take this class.

AICE Drama - If you have ever wanted to write plays or movies, act, direct, or design sets, AICE Drama is a class you should consider taking.

Drama is about communicating meaning to an audience through verbal and physical cues, and in this class you will study how playwrights and actors bring characters to life through texts that are meant to be performed.

In addition to reading and analyzing plays, you will also have the opportunity to write and perform plays.

AICE Art & Design - Maryann Kohl once said, "Art is a process, not a product." That statement exemplifies what AICE Art & Design is all about.

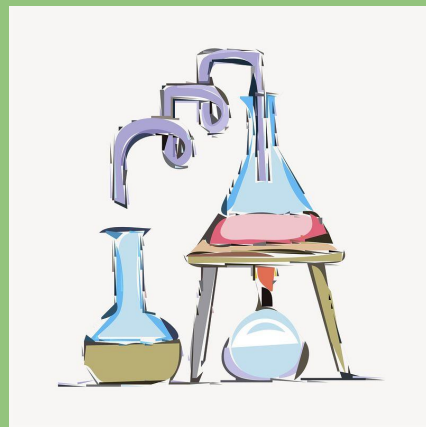
In this class, you will research, reflect on, and experiment with art. Rather than simply focusing on the final product, AICE Art allows you to focus on the process by which you create artwork.

During the course of the year, you will explore different art media and techniques, creating a portfolio that highlights all the steps that went into the creation of your art.

NEW for 2023-2024 school year: AICE Biblical Studies - AICE Biblical Studies is an elective class that aims to help students understand teachings from the Bible and other sources in order to explore the impact of religion, beliefs, and faith on how people have lived their lives throughout history. This class will challenge students to engage in scholarly debate about the Bible and societal issues with the Christian faith as they develop the ability to express and justify their own opinions.



Pre-AICE Class Options



Pre-AICE Literature - Pre-AICE English Literature is a 10th grade English class for students who took pre-AICE English Language in 9th grade and don't feel ready yet for an AICE English class.

This class is designed to help you read, understand, and respond to literary texts in different forms from different time periods and cultures. You will read poems, novels, and plays and analyze the ways in which authors communicate their purposes with their readers.

Pre-AICE Chemistry - After taking pre-AICE Biology, students can choose to take pre-AICE Chemistry. The class will focus on the basic principles and concepts that are fundamental to chemistry.

This class places a strong emphasis on practical skills so you will perform labs regularly and learn how to safely handle chemicals in a lab setting. As you study the subject, you will use scientific data and evidence to solve problems and learn how to communicate clearly using scientific terminology.

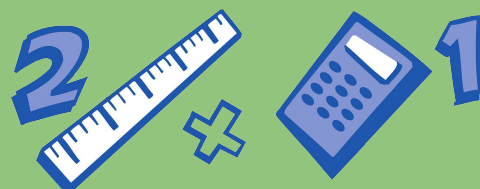
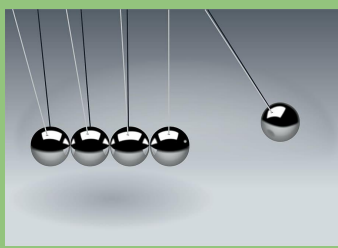
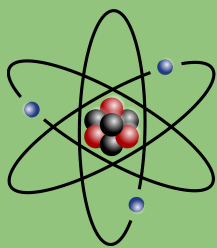
Pre-AICE Physics - Typically taken by students in 11th grade, pre-AICE physics is recommended for students who have completed pre-AICE Biology and pre-AICE Chemistry.

You will study topics including thermal physics, motion, forces, and energy, electricity and magnetism, waves, and nuclear physics. As this class is a hands-on approach to physics, you will participate in a lot of interactive activities and labs.

If you are interested in pursuing a career in engineering, this course is strongly recommended for you.

Pre-AICE Math II - After taking pre-AICE Math I, you will take pre-AICE Math II. Pre-AICE Math II covers geometry topics while also adding in a few Algebra II and calculus concepts.

Pre-AICE Math III - After taking pre-AICE Math II, you will take pre-AICE Math III. Pre-AICE Math III covers Algebra II topics while also adding in a few calculus and trigonometry concepts.





Applying to Cambridge for the 2023-2024 School Year



Cambridge
Assessment
International
Education

From January 9 - February 24, 2023, 8th graders who are interested in joining the Cambridge program (and students who aren't zoned for RHS in grades 9-11 who are interested in joining) can apply. Students who are zoned for RHS need to complete a paper application while students who are not zoned for RHS need to complete an online application.

The paper application for students who are zoned will be available starting on January 9 on the RHS website by clicking the "Cambridge & CTE Program Enrollment" link under Featured Stories. Copies will also be available in the front offices of Rockledge High, Kennedy Middle School, and McNair Middle School starting January 9.

The online application for students who are not zoned for RHS is available by visiting the Open Enrollment - Parental Choice page on the Brevard Public Schools website (<https://www.brevardschools.org/Page/8022>). On that page, there will be an "Apply Now" button which will then direct you to create a Family Dashboard account. The Family Dashboard account is where you will apply, receive notifications of your application status, and receive notification of your acceptance into the program. There is a \$30 non-refundable fee that is charged to apply for those who are not zoned for RHS.

If you or a family you know has any questions about the application process, please contact Mrs. Krajewski at krajewski.wanda@brevardschools.org.



January 9 - February 24, 2023 is also the time for current students in the RHS Cambridge or another CTE program who are NOT zoned for RHS to renew. It is required that students renew each year. To renew, you will log onto your Family Dashboard account and complete the RENEWAL application. Please make sure you are not completing the "new" application. Students who do not renew in the given window are at risk of losing their seat and may have to return to their zoned school for the 2023-2024 school year.

Former Cambridge Student, Bronwyn Rees, Visits Classes

In mid-December, RHS graduate Bronwyn Rees visited campus to talk with our AICE Global Perspectives and AICE Thinking Skills classes. Bronwyn, who earned her AICE diploma in June 2020, is currently attending Embry Riddle University where she participates in the NROTC program and is working to earn her pilot's license. Bronwyn is studying to serve on a nuclear submarine. She has already spent time on a nuclear sub with a homeport in Washington state as a part of her studies.

While visiting Ms. Moore's classes, Bronwyn discussed her experiences so far in college and how her studies in the Cambridge program of RHS have helped her adjust to the rigors of college. She also shared information about some of the internships she has participated in such as the Free the Facts ambassador program in Washington D.C. Free the Facts focuses on public speaking regarding global issues, and while she served in the program, Bronwyn conducted research and provided guided tours of D.C.

As a part of her visit, Bronwyn discussed the importance of seeking out internships while in college. Bronwyn's experiences have helped her to narrow down her career field focus and have allowed her to make connections with professionals in the field she hopes to serve in the future. She also talked about how, after some of the early parts of her collegiate studies, she changed the overall direction of her selected career field and reminded students to be open to the various career opportunities that are available to them at the collegiate level because they might discover an interest in an area that they have never considered before.



Research Study Finds Cambridge Students Excel in Subsequent College Courses

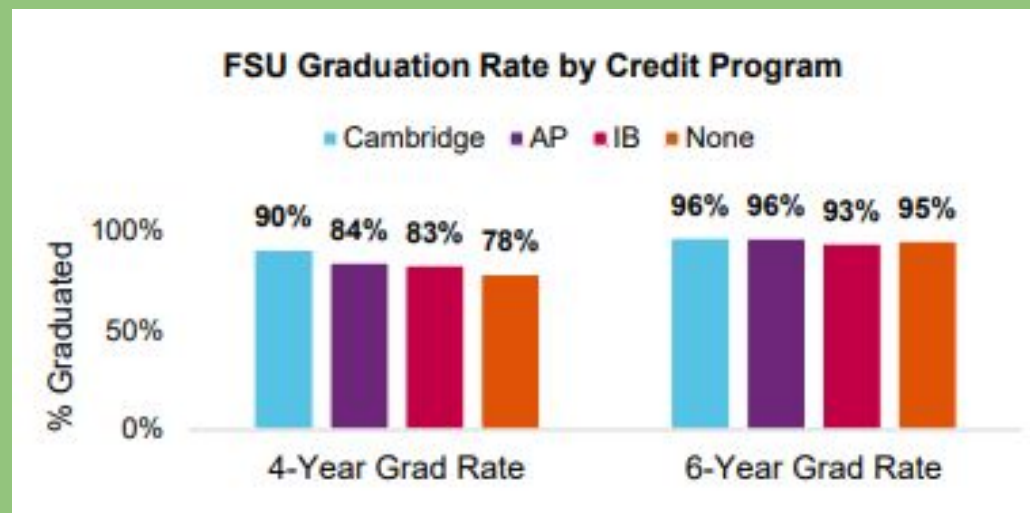


In May 2021, Katherine Chi, a data and analytics manager for Cambridge Assessment International Education and Carla Pastorino, a senior research manager for Cambridge Assessment

English released their findings on whether Cambridge students were finding success in their college courses and careers after high school.

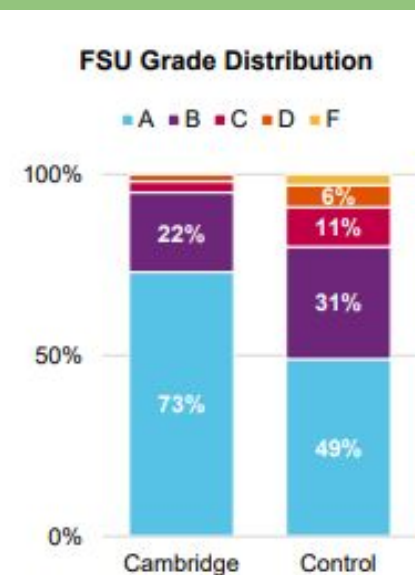
Chi and Pastorino based their results on student performance and outcomes for Cambridge students who enrolled at Florida State University after high school. They then used their findings to compare the progress of Cambridge students with students from FSU who took either AP classes and IB classes or entered FSU with no advanced program participation in high school..

Graduation data from 2007-2017 shows that 90% of Cambridge students enrolled at FSU graduate within 4 years, which is much higher than the university's overall 4-year graduation rate of about 74%. In addition, Chi and Pastorino's research shows



that a higher percentage of Cambridge students complete their bachelor's degrees in 4 years compared to students who earned college credit through other advanced coursework programs.

Chi and Pastorino also studied the grades Cambridge students earn in their classes at FSU



after taking classes and earning college credit through the AICE curriculum. Overall, their research found that 98% of the grades achieved by Cambridge students in their subsequent FSU classes were passing grades compared to 91% for the total cohort of students included in the study which looked at grades of students from 2016-2019. And, Cambridge students tended to earn higher grades with 73% of Cambridge students earning an A in the subsequent classes taken at FSU while only 49% of the control group (all other students in those courses) earned an A.

The study concludes that “while the majority of students succeed in FSU subsequent courses regardless of their preparation, the data suggests that Cambridge students may be better prepared for high-level college achievement.”

Figure 2. Grade distributions for all subsequent courses taken by Cambridge and control (all FSU) students between 2016 and 2019.

The Infinite Scholars Program

is hosting a

Free College-Scholarship Fair

Thursday, January 26, 2023

INFINITE

SCHOLARS

"The Possibilities are Infinite"



Don't miss this opportunity to meet with colleges and universities to discuss admission & scholarship opportunities. **Some colleges will be accepting students and awarding scholarships on the spot.**

Learn more about [moreCollegeOffers.com](https://www.moreCollegeOffers.com) that helps students receive more admissions and scholarship offers.

4:30pm – 7:30pm

Rockledge High School
220 Raider Road
Rockledge, FL 32955

Students should bring: multiple copies of transcripts, ACT/SAT test scores, letters of recommendation, an essay titled "Why I want to attend college.", and a resume.

THIS PROGRAM IS OPEN TO ALL STUDENTS

Students can register for this event on-line at www.infinitescholar.org



The Office of Equity and Diversity Presents...

The 2nd Annual

HBCU

Historically Black Colleges & Universities

**Information Session & Fair
and Celebration of Black History Month**

Save the Date

**February 9,
2023**

**Open to all middle and high
school students in Brevard!**

There will be special
performances, prizes,
college recruiters,
scholarship information,
and more.

Location: Viera High School

Time: 6:00PM - 8:00PM

Visit the event page for details

<https://www.brevardschools.org/Page/18249>





Scholarships

**That Might
Be A Good
Fit For You**

Foot Locker Scholar Athletes

Foot Locker awards 20 scholarships of up to \$20,000 to student athletes who embody good sportsmanship and moral character, display academic excellence, and promote the Foot Locker key attributes of being highly motivated, charismatic, honest, genuine, and courageous.

To be eligible, students be a graduating high-school senior of the class of 2023, pursuing an undergraduate degree at a two-or four-year college or university. Students must be currently involved in high school or intramural or community sports, have a minimum 3.0 GPA, and be a U.S. citizen or permanent resident. The application period for 2023 seniors is now open and will close on January 30, 2023.

For more information visit <https://www.footlockerscholarathletes.com/>

Technology Addiction Awareness Scholarship

Young people spend an average of 7.5 hours a day consuming media--and this doesn't include computer use for schoolwork--according to the Kaiser Family Foundation. With technology always at the ready at your fingertips, it can be a challenge to unplug. But taking a break from technology is healthy for both the mind and body. The purpose of this scholarship is to help you understand the negative effects of too much screen time.

This scholarship is open to all high school students. To apply, you must complete the application form which includes you writing a 140-character message about technology addiction. The top 10 applications will be selected as finalists. The finalists will be asked to write a full length 500- to 1,000-word essay about technology addiction. The deadline for applications is January 30, 2023

For more information visit

<https://www.digitalresponsibility.org/technology-addiction-awareness-scholarship>

Arts for Life Scholarship

Arts for Life! recognizes the creativity and artistic talents of high school students throughout Florida. Annually, Arts for Life! awards \$1,000 scholarships to 25 Florida high school seniors who demonstrate academic and artistic excellence in creative writing, dance, drama, music, or the visual arts.

Students must write a short essay (500 words) on how art has influenced their lives and also submit a portfolio of their art. The deadline for applications is February 6, 2023.

For more information, visit <https://artsforlifeaward.org/>

Visit <https://tinyurl.com/2muv8x3r> to access a Google Doc of MANY other scholarship opportunities you might be interested in.



Writing Contests

Association for Women In Mathematics Essay Contest

To increase awareness of women's ongoing contributions to the mathematical sciences, the Association for Women in Mathematics (AWM) and Math for America co-sponsor an essay contest for biographies of contemporary women mathematicians and statisticians in academic, industrial, and government careers.

The essay contest is open to students in grades 6-12. This year's essay topic asks students to write a biographical essay of approximately 500 - 1,000 words in length that is based primarily on an interview you conduct with a woman currently working in or retired from a mathematical career. The winners receive a monetary prize, a membership in the Association for Women in Mathematics, a certificate, and their name and affiliation published in the Newsletter for the AWM. In addition, all of the essays are published online and the Grand Prize winner's essay is published in the AWM Newsletter. Deadline is February 1, 2023.

For more information visit <https://awm-math.org/awards/student-essay-contest/>

Ringling College of Art and Design Storytellers of Tomorrow Contest

The Ringling College of Art and Design Creative Writing Program was created to support, empower, and honor young writers. Their annual contest invites high-school-age students to submit unpublished, original English-language stories of up to 2,000 words in length for the 8th Annual "Storytellers of Tomorrow" Contest. The sole criterion for earning prizes in this contest is simply overall quality, meaning that well-edited, engaging, and evocative stories have the best chance of winning over the judges.

Contest entries will be accepted from October 15, 2022 through January 15, 2023.

For more information, visit <https://www.ringling.edu/writingcontest-storytellers/>

Columbia College Chicago Young Authors Writing Competition

Columbia College Chicago Young Authors Writing Competition is open to high school students in grades 9-12. There are 3 categories for student entries: poetry, creative nonfiction, and fiction. Deadline for submission is January 27, 2023.

For more information, visit

<https://blogs.colum.edu/youngauthors/2022/11/28/guidelines-for-submission/>

CAMBRIDGE TEACHER PROFILE

Ms. Lori Smith - AICE Art & Design



The French Impressionist painter Edgar Degas once said, “Art is not what you see, but what you make others see.” Ms. Lori Smith, our AICE Art and Design teacher, hopes that all of her students realize this as they study art with her. She believes that art is a way to increase students confidence as they are allowed to freely express their creative passions and interests through the projects they create.

Since graduating from Eastern Michigan University with a bachelor’s degree in Art, Ms. Smith has been sharing her love for art with both elementary and secondary students in Brevard County. After teaching at Riviera Elementary and Cocoa Jr./ Sr. High, Ms. Smith joined the RHS teaching staff in August 2020 and has worked diligently to help our students express themselves artistically. Her students learn and create in a variety of artistic mediums from traditional paper and pencil drawings and paintings on canvas to ceramic pieces that students create from clay. Ms. Smith additionally encourages students to remember their artistic talents can also be used in what many might call less traditional avenues such as landscaping and decorating.

In AICE Art and Design, Ms. Smith helps students to understand that art history and theory is an important part of the artistic creation process. Students combine the techniques they learn with their knowledge of artistic styles and diverse cultures to develop a stronger understanding of how the history of art has made an impact on what they create in their art classes today. Students are challenged to consider the reasoning behind each part of their creative process and to realize that their ideas and how they came up with those ideas are just as important as the finished product.

As the RHS 2022 Teacher of the Year, Ms. Smith strives to make a positive difference each day, not only in the lives of her students but for the teachers and staff around her. Her dedication to making RHS a brighter place is evident as she helps everyone on campus remember that creativity and imagination are important elements of not only art, but life itself.

CAMBRIDGE STUDENT SHOWCASE

9TH GRADE STUDENT

Lindy Collins

My name is Lindy Collins and I am a 9th grader at Rockledge High School. I chose the Cambridge Program for many reasons. However, I chose this program mainly because of the opportunities that come with the program. From the Bright Futures Scholarship to dual enrollment, there is so much that this program provides. And, this program surrounds you with like-minded students so that you can do your very best. The Cambridge program has helped me in so many ways. Besides the Cambridge program, I am in the Interact club and the Spanish honor society. At Rockledge, there is a club or program for everyone.



10TH GRADE STUDENT

Benjamin Duong

Why did I join the Cambridge program? School had always been something I just attended because I had to, and it had always been easy. I needed a challenge. So when I came to Rockledge, I realized I had the incredible opportunity to strive towards getting my Cambridge diploma. This fed my desire for something difficult in my education, so of course I had to follow through. The curriculum of most AICE classes present a higher level of thinking which has elevated most of my core thinking skills. Despite having 5 AICE classes in one year, I still have time for some extracurriculars such as: Key Club and Tennis. Sports can be a big commitment, but even with hour long practices, I still have time to relax and spend time with family. Overall, the Cambridge program helps to solidify your future with a demanding curriculum.





11TH GRADE STUDENT

Charity Mugge

Hey! I'm Charity, and I am in 11th grade here at Rockledge. I am beyond glad that I pursued the Cambridge Program and am very thankful for the opportunities I have received through it. Since I was able to take AICE classes as a Freshman and a Sophomore, I earned my Cambridge Diploma with Distinction over a span of two years, qualifying me for the full Florida Bright Future scholarship. I learned how to study, how to write

research papers, and how to prepare myself for college. Because I already have my AICE Diploma, I have been taking dual enrollment courses through EFSC in addition to more AICE classes. I will graduate this spring a year early, simultaneously completing the coursework for my associates degree. I would eagerly recommend the AICE program to anyone considering it. You can still have a life outside of academics. On campus, I am involved in FCA, Mu Alpha Theta, and National Honor Society. Off campus, I babysit, have a job, serve at my local church, and love to hang out with friends. Some of my hobbies are working out, being in nature, thrifting, and napping.

12TH GRADE STUDENT

Vishanta Patterson



My name is Vishanta Patterson and I wanted to join the Cambridge program because I love a challenge. Growing up, I always wanted work that was harder and would make me think. When I learned about the Cambridge program I immediately knew that it would be a good fit for me. And all the teachers a part of it want you to succeed; that has really helped me a lot.

Since I first started school, my favorite subject has always been math. Ever since elementary school, I knew I wanted to be an accountant, or another job that deals with numbers. This year my favorite subject is AICE Math 1. I consider the problems to be hard and you actually need to put work in outside of school. That helped me a lot with disciplining myself. But it is such a good feeling when you finally understand the lesson and do well on a test.

While I love math, I also love cheerleading. I've been cheering since I was in middle school and continued to cheer all throughout high school. It's such a rewarding feeling when you're able to juggle school and a sport. I'm so happy I was accepted into the Cambridge program because it has shaped me into the woman I am today.

DID YOU KNOW?

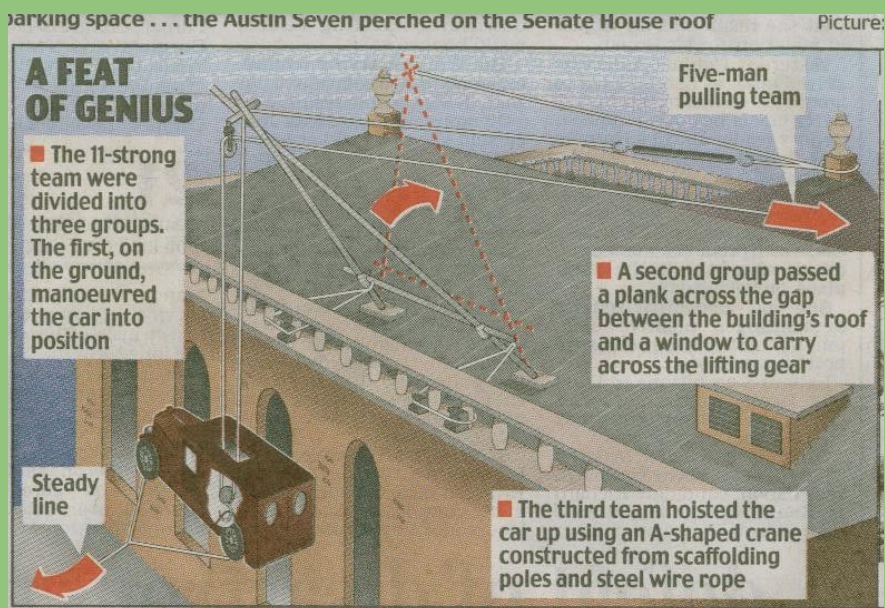


In the middle of the night on June 7, 1958, a group of engineering students from Gonville & Caius College managed to get an Austin Seven car atop the apex of the Senate House in Cambridge.

Delighted students then watched as university officials, police, firefighters, and Civil Defence army units tried to figure out how to get the car off the roof intact.

Their efforts were unsuccessful and eventually, the authorities gave up and had to cut the car up using blow torches and lower it to the ground in six pieces.

To accomplish this feat, the students involved had a broken down Austin Seven towed to a parking space near the Senate House and then “borrowed” materials from building sites around the Senate House. The students set up a plank bridge between the Senate House and Gonville & Caius College for access to the roof. Then they built an A-frame to hoist the car into the air and swing it onto the roof.



Five years later, another group of students decided to also use an Austin Seven for a prank at Cambridge. After tying four punting boats together, the group put an old Austin Seven on the makeshift barge and floated it down the river Cam until they got to the Bridge of Sighs. There, the students passed cables through the open windows of the car and then through the windows of the bridge, using them to lift the car up off the punts.



TEST YOUR AICE KNOWLEDGE

The following questions appeared on the AICE Math paper 1 exam in November 2020. How would you answer the questions below?

In the expansion of $\left(2x^2 + \frac{a}{x}\right)^6$, the coefficients of x^6 and x^3 are equal.

(a) Find the value of the non-zero constant a . [4]

(b) Find the coefficient of x^6 in the expansion of $(1 - x^3)\left(2x^2 + \frac{a}{x}\right)^6$. [1]

The following questions appeared on the AICE Math paper 5 exam in November 2020. How would you answer the questions below?

The time in hours that Davin plays on his games machine each day is normally distributed with mean 3.5 and standard deviation 0.9.

(a) Find the probability that on a randomly chosen day Davin plays on his games machine for more than 4.2 hours. [3]

(b) On 90% of days Davin plays on his games machine for more than t hours. Find the value of t . [3]

Answer to Paper 1 part a question:

$$6C2 \times [2(x^2)]^4 \times \left[\frac{a}{(x)}\right]^2, \quad 6C3 \times [2(x^2)]^3 \times \left[\frac{a}{(x)}\right]^3$$

$$15 \times 2^4 \times a^2 = 20 \times 2^3 \times a^3$$

$$a = \frac{15 \times 2^4}{20 \times 2^3} = \frac{3}{2}$$

Answer to Paper 1 part b question: 0

Answer to Paper 5 part a question:

$$P(X > 4.2) = P\left(z > \frac{4.2 - 3.5}{0.9}\right) \\ = P(z > 0.7778)$$

$$1 - 0.7818$$

$$0.218$$

Answer to Paper 5 part b question:

$$z = -1.282$$

$$\frac{t - 3.5}{0.9} = -1.282$$

$$t = 2.35$$