

## ADVANCED LEARNING FOR ALL:

### Expanding Access and Increasing Opportunities

**OVERVIEW:** The core objective of expanding advanced course offerings is to eliminate barriers and increase access to all students so that more graduates are poised to secure professional careers that are in high-demand and offer attractive wages.

## ► BENEFITS OF ADVANCED LEARNING

### ELEMENTARY

#### Early exposure to:

- \* more rigorous content
- \* building knowledge through strategic research and investigations
- \* exploration of complex texts and writing tasks
- \* learning tasks that require critical thinking, collaborating, creating, and communicating in varied ways
- \* conducting interdisciplinary STEM related research projects

### MIDDLE

#### Students have the opportunity to:

- \* develop skills for time management, studying, strategic and critical thinking, and using modes of communication.
- \* take high school courses at the Grade 8 level (i.e. Algebra I and Physical Science).
- \* apply learning to real-world situations more frequently (increases engagement and learning).
- \* develop career-interests based on learning experiences and strategic advisement for CTAE pathways .

### HIGH

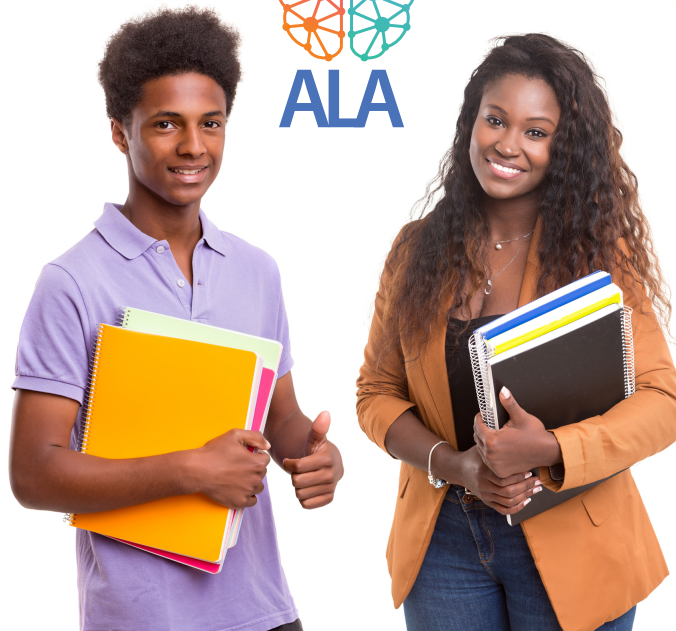
#### Students have the opportunity to:

- \* develop intellectual growth through the ability to engage with outside sources in their reading, writing, and research.
- \* experience comparable college course work in multiple settings (Advanced Placement, International Baccalaureate, Cambridge Assessment International Education, and/or Dual Enrollment).
- \* complete college and career courses, which will lead toward high school and college credit and/or industry credentialing.
- \* experience global, relevant, real-world learning.
- \* consolidate post-secondary interest through their participation in self-selected career pathways.
- \* gain a deeper knowledge base of a subject matter and cross-cutting concepts.

## TIPS FOR SUCCESS:

### Accelerated or Advanced Placement

- \* Understand the full expectations of the course (review course description, syllabus, etc.), and have all required resources and supplies.
- \* Create a system for staying organized; you do not want to get behind.
- \* Have a clear method(s) for note-taking.
- \* Schedule daily time to study and complete assignments.
  - \*Study (or review notes) nightly even if you do not have a test.
  - \*Consider joining a study group or studying with a partner.
- \* Have access to a computer and Wi-Fi for research and completing and uploading assignments.
- \* Have knowledge of additional support tools (e.g. practice websites, practice tests, free Apps, teacher's tutoring schedule).
- \* Build your stamina for reading, writing, reasoning, and critical thinking regularly.
- \* Most importantly, be confident in your ability to succeed!



For more information on the Advanced Learning For All Program:  
<https://tinyurl.com/ccpsHighPerformance>



**ADVANCED LEARNING FOR ALL**

Expanding Access and Increasing Opportunities



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## ► RISING 6th Graders

### Advanced Learning Course Offering

**Course Name:** Grade 6 Accelerated Mathematics

**Course Description:** This course is designed to address the performance standards for mathematics 6. Students who take Math 6 accelerated will experience an academic course of rigorous curricula and instruction to include engaging activities specifically designed to further develop student performance through accelerated 7th and Algebra content. Successful progress through the middle grades Accelerated Math classes will enable students to pursue advanced mathematical studies in high school such as AP Calculus, AP Statistics, and/or Dual Enrollment college math courses.

## ► RISING 8th Graders

### High School Course Offerings

**Course Name:** Physical Science

**Course Description:** This course is designed as a survey of the core ideas in the physical sciences. Those core ideas will be studied in more depth in the chemistry and physics courses. The physical science course includes abstract concepts such as the conceptualization of the structure of atoms and the role they play in determining the properties of materials, motion and forces, the conservation of energy and matter, wave behavior, electricity, and the relationship between electricity and magnetism. Students investigate physical science concepts through the study of phenomena, experiences in laboratory/investigation settings, and field work.

**Course Name:** Algebra I

**Course Description:** Algebra I is the first course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of algebra with correlated statistics applications. The standards in the three-course high school sequence specifies the mathematics that all students should study in order to be college and career ready.

## ► RISING 9th Graders

### Advanced Learning Course Offerings

#### SCIENCE

**Course Name:** AP Environmental Science

**Course Description:** The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The AP Environmental Science course has been developed to enable students to undertake, as first-year college students, a more advanced study of topics in environmental science or, alternatively, to fulfill a basic requirement for a laboratory science and thus free up time for taking other courses.

**Course Name:** AP Computer Science Principles

**Course Description:** The AP Computer Science Principles course exposes students to a variety of fields such as 3-D animation, medicine, fashion, engineering, visual design, finance, music production, statistical analysis, and much more. Computer science powers the technology, productivity, and innovation that drives the world. IDEAS COME TO LIFE AP® Computer Science Principles (AP CSP) helps students to understand how computing and technology influence the world around them. **In this course, students will create digital projects, such as games and apps, to address real-world issues in the same way writers, programmers, engineers, and designers do.** Examples of projects created in AP CSP: An app that helps travelers pack based on their destination's weather, a program that identifies cybersecurity threats and indicates how to use the internet to address them, an LED light. Students submit projects throughout the course to AP central to demonstrate performance based proficiency. This is in addition to the written AP exam given in May.

## SOCIAL STUDIES

**Course Name:** AP Human Geography

**Course Description:** The AP Human Geography course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The curriculum reflects the goals of the National Geography Standards (2012).

**Course Name:** AP World History

**Course Description:** AP World History is designed to be the equivalent of a two-semester introductory college or university world history course. In AP World History, students investigate significant events, individuals, developments, and processes in six historical periods from approximately 8000 B.C.E. to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures.