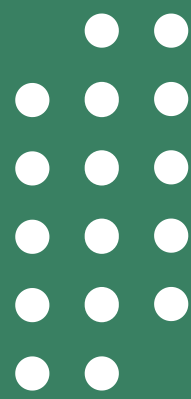


AP COURSES



AP COURSE OFFERINGS &
DESCRIPTIONS



WHY AP?

WHY TAKE AN AP CLASS?

From the College Board:

- AP Classes give you the opportunity to earn college credit or placement while you are in high school!
- Research shows that students who have taken an AP exam, have stronger college outcomes than their peers.
- Taking an AP class & exam shows colleges, universities, and scholarship programs that you are an exceptionally hard worker and willing to complete college-level work.

WHAT IF I NEED EXTRA SUPPORT?

In addition to the support you will receive from excellent AP teachers, check out some additional resources below!

- Math & Writing Labs @SHS
- After-School Tutorial @SHS
- AVID (check out the next page for more details)
- Learning Express Library System

AP COORDINATOR

For students taking an AP Exam, if you have a question regarding AP Exam costs, fee waivers, and scholarships, please see Mr. Rufner, our Service AP Coordinator.

Phone: 907-742-8114 or Email: rufner_daniel@asdk12.org

WHO SHOULD TAKE



AVID ELECTIVE STUDENTS...

- want to take rigorous courses, but need help with academic skills.
- are motivated to continue learning after high school.
- are often the first in their family to plan to attend college.
- are often from underrepresented populations.
- will get help in writing, inquiry, collaboration, organization, and reading in rigorous courses.
- often learn in non-traditional ways.
- want to have fun while they learn.

AVID TUTORS

- are dedicated to helping students succeed in their academics.
- are excellent with inquiry to help students academically.
- believe that every student has the potential to achieve greatness.
- want to give back to the SHS community.
- receives training which makes them AVID tutors anywhere AVID exists.
- participates in a nationally recognized program.
- gets time to work on their college or career search.
- wants a class that looks good on transcripts.



AVID HELPS STUDENTS BECOME COLLEGE, CAREER, AND LIFE READY!

AVID is a nationally recognized program that is designed to support students' post-secondary education and career goals. AVID provides academic support, skill development, and critical thinking skills that helps students reach their full potential. AVID is an incredible support to students as they navigate college, career, and life readiness!

Talk to your counselor about AVID.



Come join our family!

Proven Results: Degree Completion

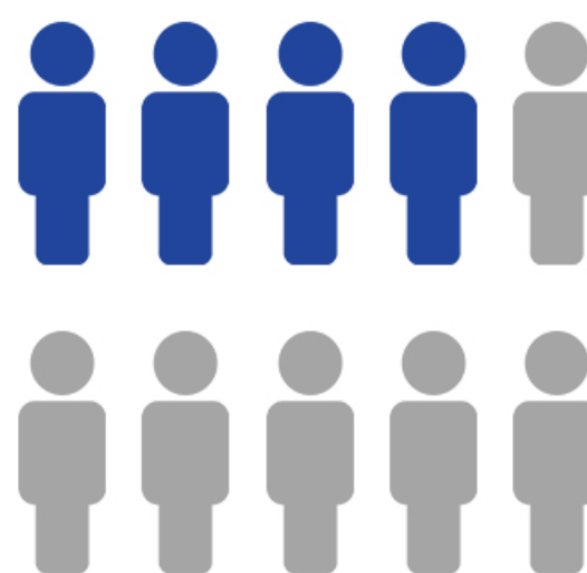
First-generation, low-income **AVID alumni** who go to college are **four times more likely to graduate** than their **national peers**.

42%

of first-generation, low-income AVID college students graduate with a four-year degree within six years*

11%

of peers nationally graduate within the same time frame**



*Source: These data reflect records received from National Student Clearinghouse, 2016–2018. AVID Senior Data Collection, 2010–2012 [Electronic Database]

**Source: Engle, J. & Tinto, V. (2008). Moving Beyond Access. Washington, DC: The Pell Institute.

COURSE OFFERINGS



9TH GRADE

- AP Human Geography
- AP Computer Science A
- AP Computer Science Principles

11TH-12TH GRADE

- AP US History (11th Only)
- AP Human Geography
- AP US Government & Politics
- AP African American Studies
- AP Economics, Micro
- AP Economics, Macro
- AP Psychology
- AP Literature and Composition
- AP Language and Composition
- AP Calculus AB
- AP Statistics
- AP Computer Science A
- AP Computer Science Principles
- AP Chemistry
- AP Biology
- AP Environmental Science
- AP Physics 1: Algebra-Based
- AP 2-D Art & Design Portfolio
- AP Drawing Portfolio
- AP Seminar
- AP Research
- AP Spanish Language & Culture
- AP Japanese Language & Culture
- AP German Language & Culture

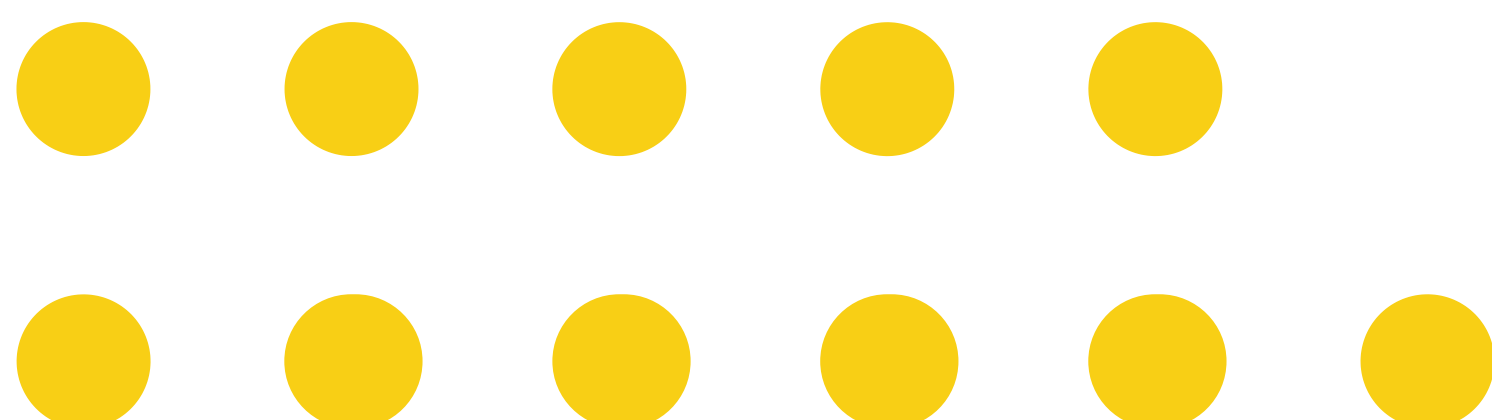
10TH GRADE

- AP World History
- AP Human Geography
- AP Psychology
- AP Calculus AB
- AP Statistics
- AP Computer Science A
- AP Computer Science Principles
- AP 2-D Art and Design Portfolio
- AP Drawing Portfolio
- AP Seminar



SCAN ME

Scan here for more information about the College Board and AP Course Offerings



CAPSTONE DIPLOMA



COURSE DESCRIPTIONS

The AP Capstone Diploma Program is a two-year program based on two AP courses: AP Seminar and AP Research. Students who fulfill the requirements can earn academic awards recognized by colleges around the world.

AP SEMINAR

Develop and practice the skills in research, collaboration, and communication that you'll need in any academic discipline. You'll investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team.

SKILLS YOU'LL LEARN:

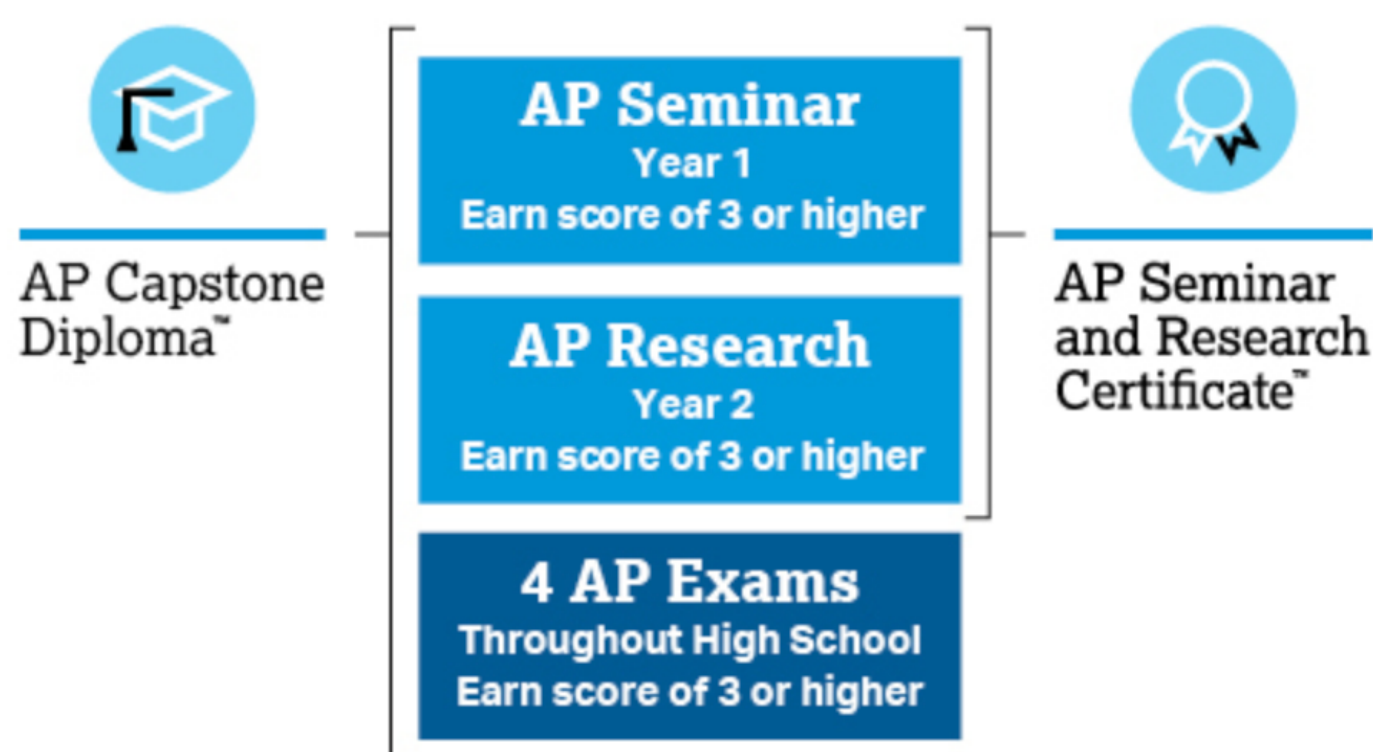
- Reading and analyzing articles, studies, and other texts
- Gathering and combining information from sources
- Viewing an issue from multiple perspectives
- Crafting arguments based on evidence

AP RESEARCH

Build on what you learned in AP Seminar to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, you will design, plan, and conduct a year-long research based investigation to address a research question.

SKILLS YOU'LL LEARN:

- Conducting independent research
- Analyzing sources and evidence
- Applying context and perspective
- Writing a college-level academic paper
- Present research findings to an audience



- Students that take AP Seminar and AP Research and score a 3 or better receive a Capstone Certificate.
- Students who earn a 3 or higher on exams for AP Seminar and AP Research as well as 4 additional AP classes can earn the AP Capstone Diploma.

NOTE: AP RESEARCH AND SEMINAR COUNT TOWARDS ENGLISH CREDIT

ARTS



COURSE DESCRIPTIONS

AP 2-D ART & DESIGN PORTFOLIO

Develop your 2-D skills through materials and processes such as graphic design, photography, collage, printmaking, fashion illustration, collage, and others. You'll create artwork that reflects your own ideas and skills and what you've learned.

SKILLS YOU'LL LEARN:

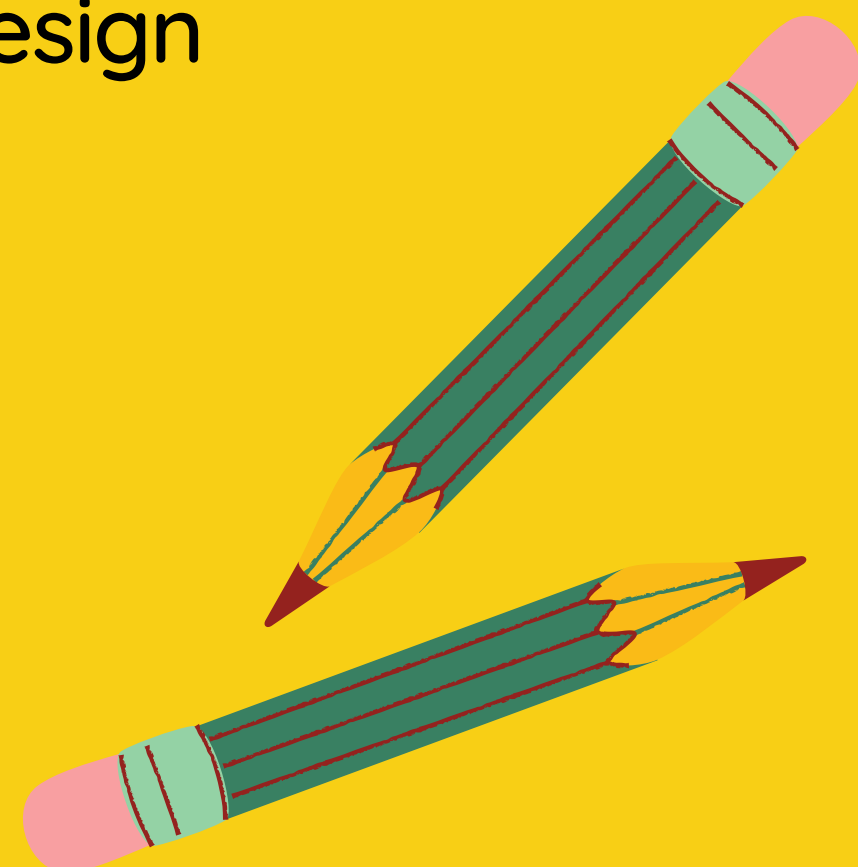
- Investigating the materials, processes, and ideas that artists and designers use
- Practicing, experimenting, and revising as you create your own work
- Communicating your ideas about works of art and design

AP DRAWING PORTFOLIO

Develop your skills in drawing as you experiment with different materials and processes. You'll create artwork that reflects your own ideas and skills and what you've learned.

SKILLS YOU'LL LEARN:

- Investigating the materials, processes, and ideas that artists and designers use
- Practicing, experimenting, and revising as you create your own work
- Communicating your ideas about works of art and design



ENGLISH



COURSE DESCRIPTIONS

AP LANGUAGE & COMPOSITION

Learn about the elements of argument and composition as you develop your critical-reading and writing skills. You'll read and analyze nonfiction works from various periods and write essays with different aims: for example, to explain an idea, argue a point, or persuade your reader of something.

SKILLS YOU'LL LEARN:

- Reading closely, analyzing, and interpreting a piece of writing
- Evaluating a source of information
- Gathering and consolidating information from different sources
- Writing an evidence-based argument
- Drafting and revising a piece of writing

AP LITERATURE & COMPOSITION

Learn how to understand and evaluate works of fiction, poetry, and drama from various periods and cultures. You'll read literary works and write essays to explain and support your analysis of them.

SKILLS YOU'LL LEARN:

- Read a text closely and draw conclusions from details
- Identify the techniques used by an author and their effects
- Develop an interpretation of a text
- Present your interpretation and make an argument for it in writing

**NOTE: AP RESEARCH AND AP SEMINAR
COUNT TOWARDS ENGLISH CREDIT**

HISTORY & SOCIAL SCIENCES



COURSE DESCRIPTIONS

AP US HISTORY

In this year-long course students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.

AP WORLD HISTORY

Study the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to the present. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments.

SKILLS YOU'LL LEARN:

- Evaluating primary and secondary sources
- Analyzing the claims, evidence, and reasoning you find in sources
- Putting historical developments in context and making connections between them
- Coming up with a claim or thesis and explaining and supporting it in writing

HISTORY & SOCIAL SCIENCES



COURSE DESCRIPTIONS



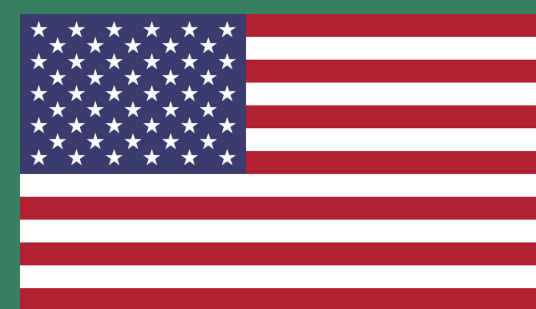
AP HUMAN GEOGRAPHY

Explore how humans have understood, used, and changed the surface of Earth. You'll use the tools and thinking processes of geographers to examine patterns of human population, migration, and land use.

SKILLS YOU'LL LEARN:

- Connecting geographic concepts and processes to real-life scenarios
- Understanding information shown in maps, tables, charts, graphs, infographics, images, and landscapes
- Seeing patterns and trends in data and visual sources such as maps and drawing conclusions from them
- Understanding spatial relationships using geographic scales

AP US GOVERNMENT & POLITICS



This one-semester course (offered in the Spring of your Senior year) surveys the structure and function of American government and politics that begins with an analysis of the United States Constitution, and the foundation of the American political system. Students study the three branches of government, administrative agencies that support each branch, the role of political behavior in the democratic process, rules governing elections, political culture, and the workings of political parties and interest groups. The discussions will emphasize the changing political culture of American society and its effect on voting patterns, trends, and the processes of government. The main thrust of this course is to provide you with the tools to apply your knowledge of our political system to contemporary events in order to be an informed and engaged citizen in society.

HISTORY & SOCIAL SCIENCES



AP AFRICAN AMERICAN STUDIES

AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with authentic and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Given the interdisciplinary character of African American studies, students in the course will develop skills across multiple fields, with an emphasis on developing historical, literary, visual, and data analysis skills. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and the African diaspora.

SKILLS YOU'LL LEARN:

Throughout this course, students will learn to:

- Apply lenses from multiple disciplines to evaluate key concepts, historical developments, and processes that have shaped Black experiences and debates within the field of African American studies.
- Identify connections between Black communities in the United States and the broader African diaspora in the past and present.
- Compare and analyze a range of perspectives about the movements, approaches, organizations, and key figures involved in freedom movements, as expressed in textbased, data, and visual sources.
- Demonstrate understanding of the diversity and complexity of African societies and their global connections before the emergence of transatlantic slavery.
- Evaluate the political, historical, aesthetic, and transnational contexts of major social movements.
- Develop a broad understanding of the many strategies African American communities have employed to represent themselves authentically, promote advancement, and combat the effects of inequality.
- Identify major themes that inform literary and artistic traditions of the African diaspora.

HISTORY & SOCIAL SCIENCES



COURSE DESCRIPTIONS

AP ECONOMICS: MICROECONOMICS

Study the principles of economics that apply to the behavior of individuals within an economic system. You'll use graphs, charts, and data to analyze, describe, and explain economic concepts.

SKILLS YOU'LL LEARN:

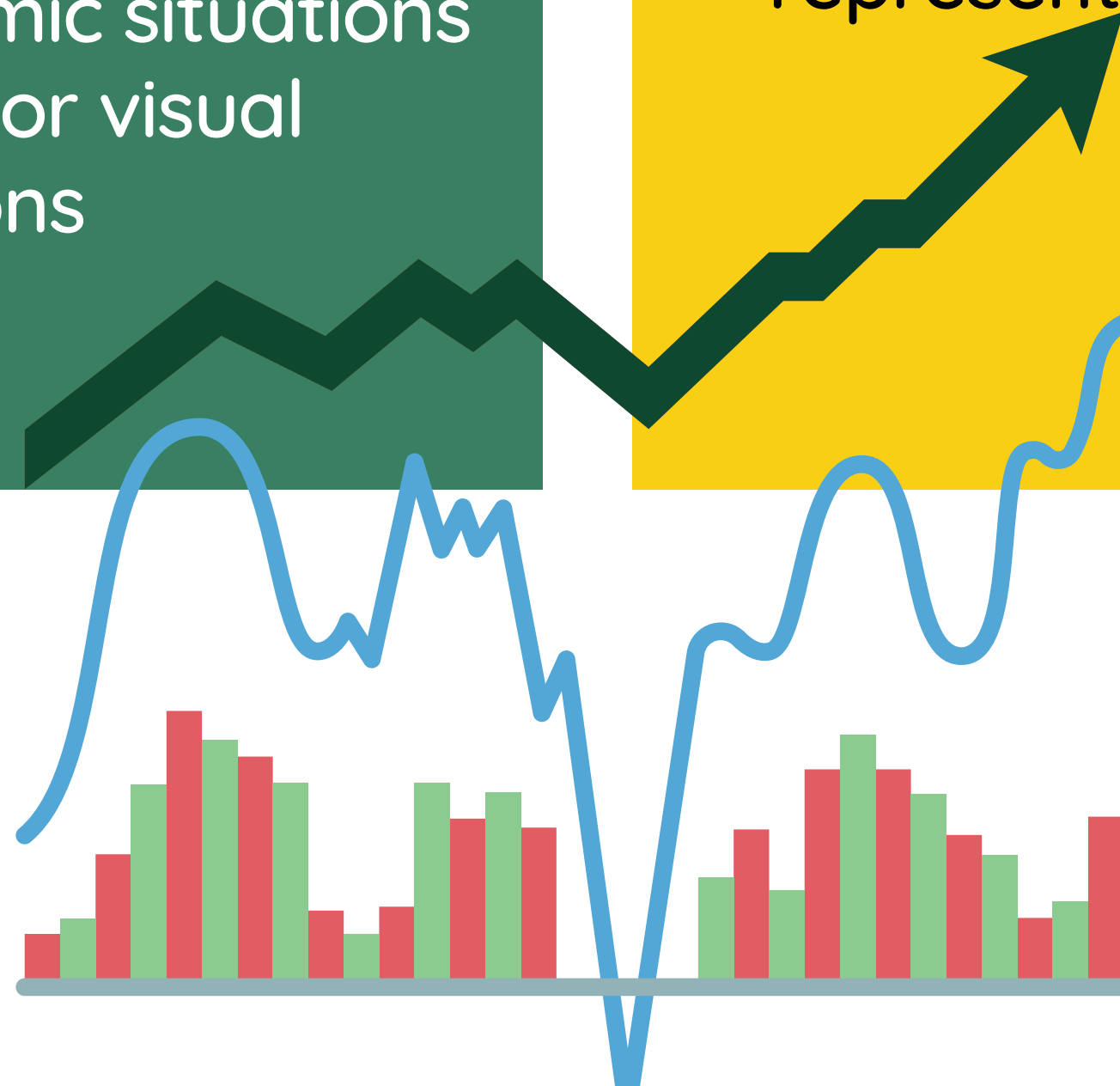
- Define economic principles and models
- Explain given economic outcomes
- Determine outcomes of specific economic situations
- Model economic situations using graphs or visual representations

AP ECONOMICS: MACROECONOMICS

Explore the principles of economics that apply to an economic system as a whole. You'll use graphs, charts, and data to analyze, describe, and explain economic concepts.

SKILLS YOU'LL LEARN:

- Define economic principles and models
- Explain given economic outcomes
- Determine outcomes of specific economic situations
- Model economic situations using graphs or visual representations



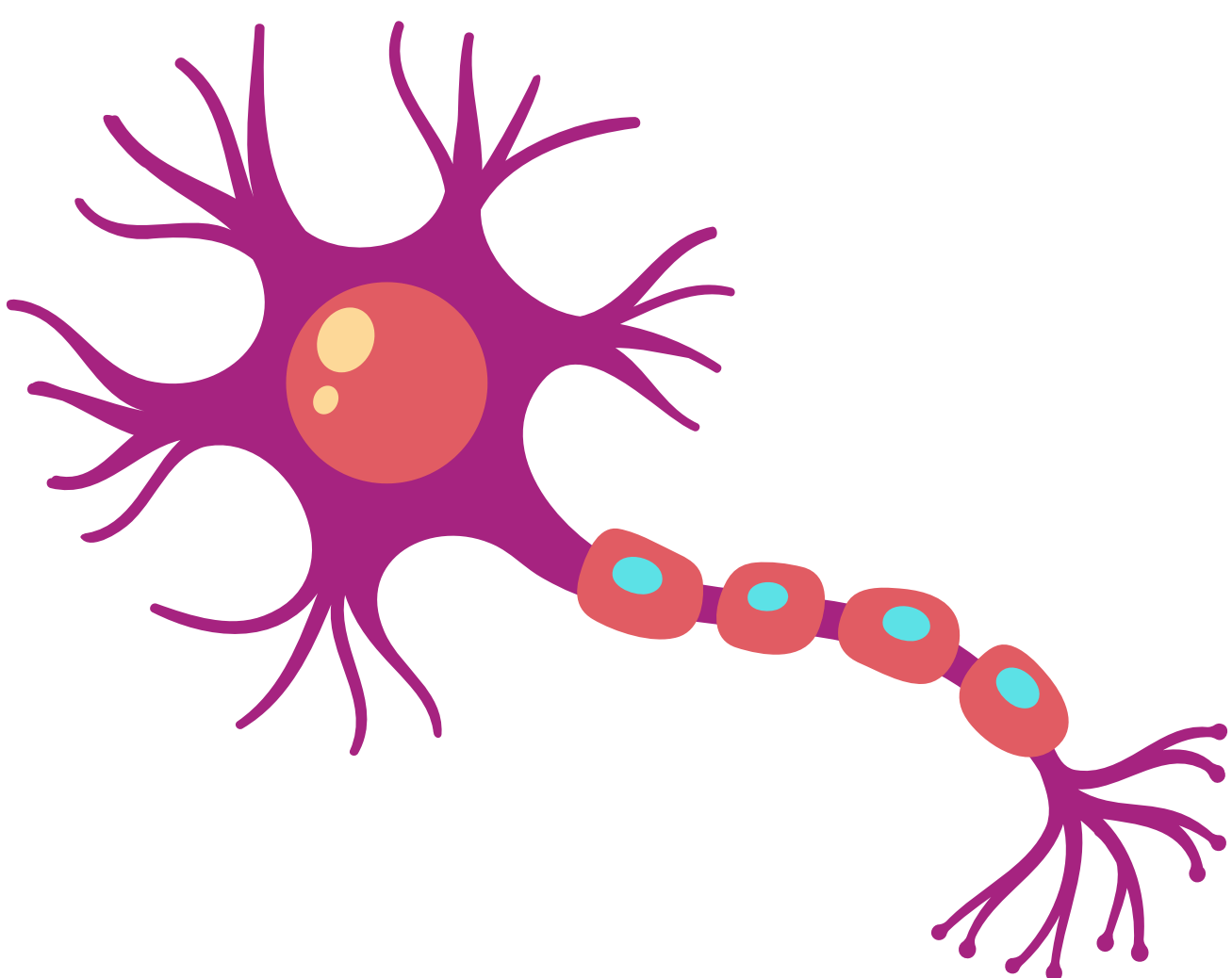
HISTORY & SOCIAL SCIENCES



COURSE DESCRIPTION

AP PSYCHOLOGY

Explore the ideas, theories, and methods of the scientific study of behavior and mental processes. You'll examine the concepts of psychology through reading and discussion and you'll analyze data from psychological research studies.



SKILLS YOU'LL LEARN:

- Connecting psychological concepts and theories to real-life scenarios
- Understanding and interpreting data
- Analyzing research studies in psychology

MATH & COMPUTER SCIENCE



COURSE DESCRIPTIONS

AP CALCULUS AB

Explore the concepts, methods, and applications of differential and integral calculus. You'll work to understand the theoretical basis and solve problems by applying your knowledge and skills.

SKILLS YOU'LL LEARN:

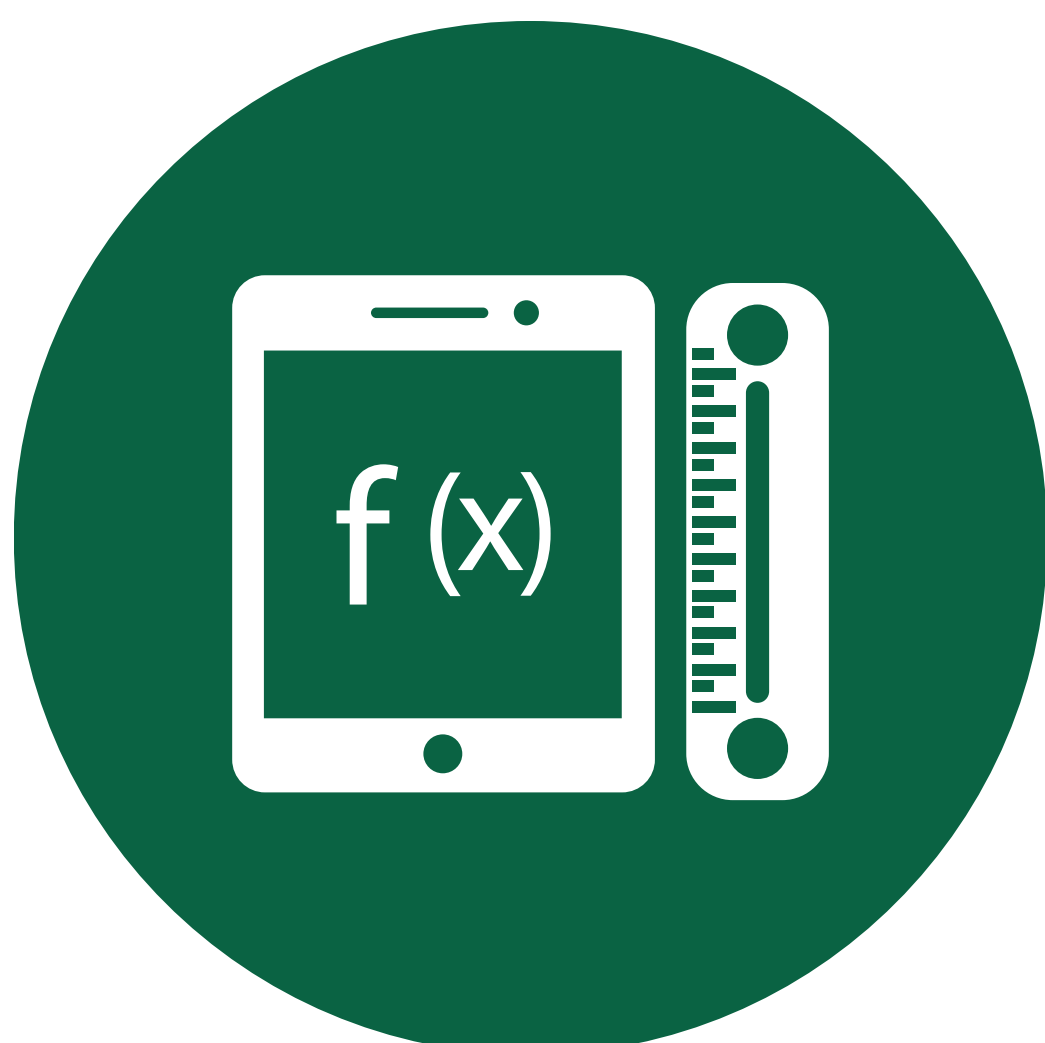
- Determining expressions and values using mathematical procedures and rules
- Connecting representations
- Justifying reasoning and solutions
- Using correct notation, language, and mathematical conventions to communicate results or solutions

AP CALCULUS BC

Explore the concepts, methods, and applications of differential and integral calculus, including topics such as parametric, polar, and vector functions, and series. You'll perform experiments and investigations and solve problems by applying your knowledge and skills.

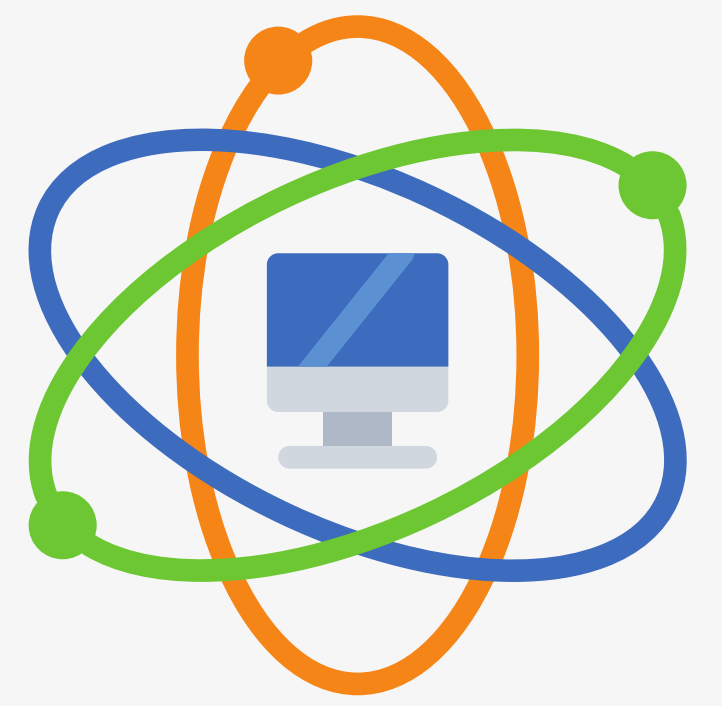
SKILLS YOU'LL LEARN:

- Determining expressions and values using mathematical procedures and rules
- Connecting representations
- Justifying reasoning and solutions
- Using correct notation, language, and mathematical conventions to communicate results or solutions



CALCULUS

MATH & COMPUTER SCIENCE



COURSE DESCRIPTIONS

AP COMPUTER SCIENCE A

Get familiar with the concepts and tools of computer science as you learn a subset of the Java programming language. You'll do hands-on work to design, write, and test computer programs that solve problems or accomplish tasks.

SKILLS YOU'LL LEARN:

- Designing a program, developing the algorithms it needs, and writing code to implement them
- Testing program code and correcting errors
- Documenting and explaining how program code works



AP COMPUTER SCIENCE PRINCIPLES

Learn the principles that underlie the science of computing and develop the thinking skills that computer scientists use. You'll work on your own and as part of a team to creatively address real-world issues using the tools and processes of computation.

SKILLS YOU'LL LEARN:

- Making connections between concepts in computing
- Designing a program to solve a problem or complete a task
- Applying abstractions in computation and modeling
- Analyzing computational work
- Communicating ideas about technology and computation
- Working collaboratively to solve problems

NOTE: STUDENTS THAT COMPLETE THE AP COMPUTER SCIENCE PRINCIPLES YEAR-LONG COURSE RECEIVE .5 PHYSICAL SCIENCE CREDIT AND .5 ELECTIVE CREDIT.

MATH & COMPUTER SCIENCE



COURSE DESCRIPTION

AP STATISTICS

Learn about the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. You'll explore statistics through discussion and activities, and you'll design surveys and experiments.

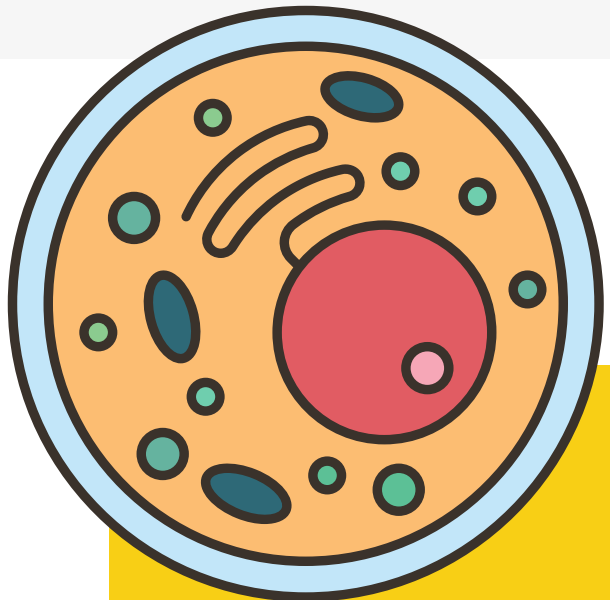
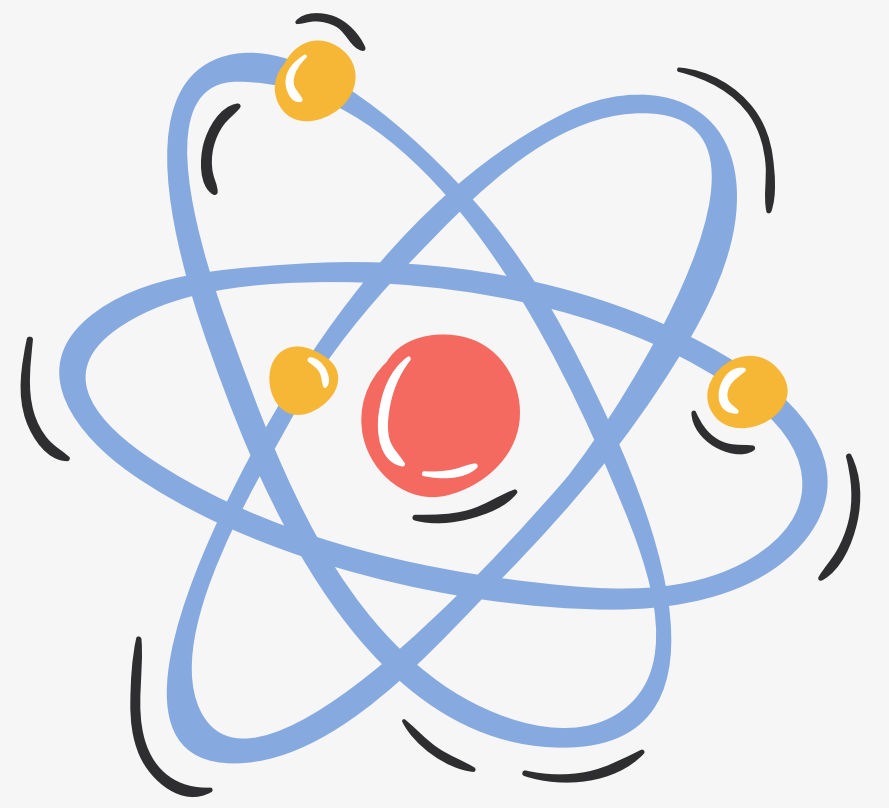


SKILLS YOU'LL LEARN:

- Selecting methods for collecting or analyzing data
- Describing patterns, trends, associations, and relationships in data
- Using probability and simulation to describe probability distributions and define uncertainty in statistical inference
- Using statistical reasoning to draw appropriate conclusions and justify claims



SCIENCE



COURSE DESCRIPTIONS

AP BIOLOGY

Study the core scientific principles, theories, and processes that govern living organisms and biological systems. You'll do hands-on laboratory work to investigate natural phenomena.

SKILLS YOU'LL LEARN:

- Designing experiments and procedures to test a prediction or theory
- Interpreting data to draw conclusions
- Collecting and analyzing data
- Developing and supporting a scientific claim with evidence

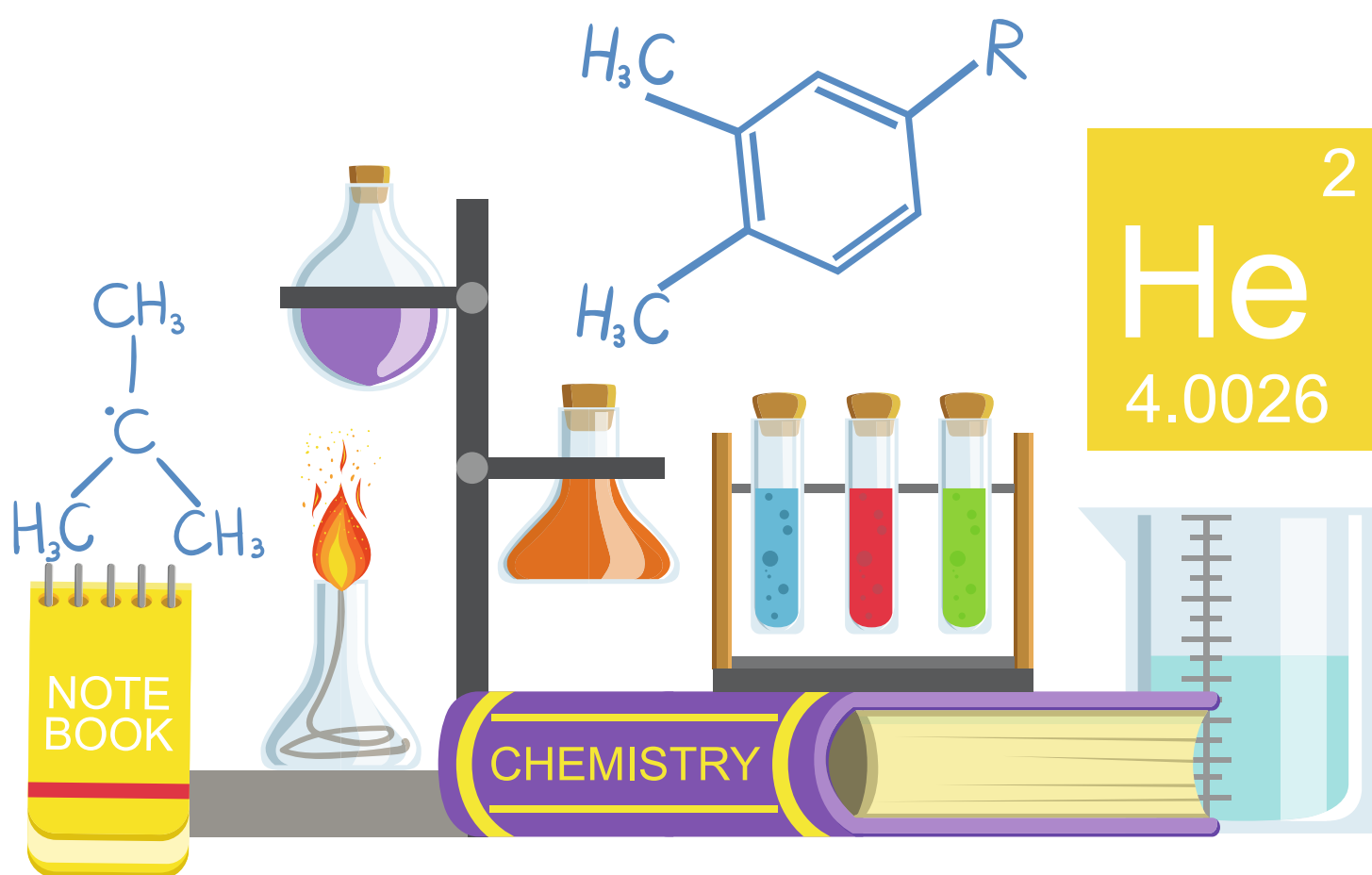
AP CHEMISTRY

Learn about the fundamental concepts of chemistry including structure and states of matter, intermolecular forces, and reactions. You'll do hands-on lab investigations and use chemical calculations to solve problems.

Note: Save your lab notebooks and reports; colleges may ask to see them before granting you credit.

SKILLS YOU'LL LEARN:

- Designing experiments and procedures to test a prediction or theory
- Explaining how the microscopic structure of a substance determines its chemical properties
- Making a scientific claim and supporting it with evidence
- Creating graphs, diagrams, and models that represent chemical phenomena
- Balancing a chemical equation



SCIENCE



COURSE DESCRIPTIONS

AP ENVIRONMENTAL SCIENCE

Explore and investigate the interrelationships of the natural world and analyze environmental problems, both natural and human-made. You'll take part in laboratory investigations and field work. Note: Save your lab notebooks and reports; colleges may ask to see them before granting you credit.

SKILLS YOU'LL LEARN:

- Explaining environmental concepts and processes
- Applying quantitative methods in solving problems
- Analyzing a research study to identify a hypothesis
- Analyzing data, visual representations, and writings
- Proposing a solution for an environmental problem and supporting your idea with evidence

$$E = mc^2$$

AP PHYSICS

Learn about the foundational principles of physics as you explore Newtonian mechanics; work, energy, and power; mechanical waves and sound; and introductory, simple circuits. You'll do hands-on laboratory work to investigate phenomena.

Note: Save your lab notebooks and reports; colleges may ask to see them before granting you credit..

SKILLS YOU'LL LEARN:

- Interpreting and describing representations and models
- Formulating a scientific question or hypothesis
- Analyzing data and evaluating evidence
- Making connections
- Using mathematics to solve science problems
- Designing an experiment to answer a scientific question or to test a hypothesis
- Working with scientific explanations and theories

WORLD LANGUAGES & CULTURES



COURSE DESCRIPTIONS



AP GERMAN LANGUAGE & CULTURE

Develop your German language skills and learn about the cultures in German-speaking parts of the world. You'll practice communicating in German and study real-life materials such as newspaper articles, films, music, and books.

SKILLS YOU'LL LEARN:

- Understand German when you hear it and read it
- Holding conversations in real-life situations
- Writing stories, letters, emails, essays, and other texts

AP JAPANESE LANGUAGE & CULTURE

Develop your Japanese language skills and learn about Japanese culture. You'll practice communicating in Japanese and you'll engage with real-life materials such as newspaper articles, films, music, and books.

SKILLS YOU'LL LEARN:

- Understand Japanese when you hear it and read it
- Holding conversations in real-life situations
- Writing text messages, letters, emails, essays, and other texts



AP SPANISH LANGUAGE & CULTURE

Develop your Spanish language skills and learn about the cultures in Spanish-speaking parts of the world. You'll practice communicating in Spanish and study real-life materials such as newspaper articles, films, music, and books.

SKILLS YOU'LL LEARN:

- Understand Spanish when you hear it and read it
- Holding conversations in real-life situations
- Writing stories, letters, emails, essays, and other texts

NOTE: AP World Language classes are predominately offered in 11-12th grade. They are also offered for former immersion students; this may include 9-10th grade students.

AP @ SHS

