

# Course Catalog



## Alaska

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### Math

#### Calvert Grade 1 Math

Students will extend their knowledge of addition and subtraction to two-digit numbers. They will also explore measurement, charts, graphs, time, money, and solid shapes. Students will demonstrate concepts learned through fun, project-based activities such as creating a 3D cake design.

*Course content subject to change.*

#### Calvert Grade 2 Math

In Math 2, students will continue developing a strong number sense as well as mental math and problem-solving skills using research-based methods. Students will also focus on three-digit numbers, addition and subtraction to 1000, data collection, money, time, and shapes. Engaging, project-based units promote critical-thinking skills and include activities such as designing a sneaker and organizing a fundraising event.

#### Calvert Grade 3 Math

In Math 3, students will focus on developing understanding of multiplication and division and strategies for multiplication and division within 100; developing their understanding of fractions, especially unit fractions; learning about the structure of rectangular arrays and of area; and describing and analyzing two-dimensional shapes. Lessons employ digital resources that engage students and promote active learning, such as a digital place-value chart used with base-10 blocks to model addition and subtraction and a virtual beam balance to practice mental math and estimation.

#### Calvert Grade 4 Math

Math 4 dives deeper into addition, subtraction, multiplication, and division of whole numbers; fractions; data and graphing; measuring angles and symmetry; and calculating perimeter and area of squares and rectangles. In this project-based course, students will have the opportunity apply the skills they have learned in activities such as building a travel itinerary, preparing a budget for a trip, and using geometry to design a dream neighborhood.

#### Calvert Grade 5 Math

Math provides additional experience with basic mathematical operations. Students are introduced to multiplying two-digit numbers by two-digit numbers; practicing long division with and without remainders; adding, subtracting, and multiplying unlike fractions and mixed numbers; and working with decimals. Students will also practice graphing on a coordinate plane and calculating the volume of solid figures. Project-based units facilitate real-world connections and bring context to the skills and concepts students are learning.

#### Calvert Kindergarten Math

Kindergarten Math focuses on the basics of counting to 100, simple addition, subtraction, measuring, and shapes. Students will engage in projects that utilize learning in useful ways, such as creating a number book and measuring and weighing an item to ship to a family in need. Students will practice skills in both offline and engaging online activities and in game-based practice.

### English Language Arts

#### Calvert Grade 1 English Language Arts

This course continues to build on and add to the foundational skills students learned in kindergarten through daily learning. Over the course of the year, students will develop a fuller range of phonics, comprehension, vocabulary, spelling, and fluency skills. Students will think critically about authentic texts and begin to practice writing to communicate their thoughts. During the course, students will practice narrative, informational, and persuasive writing. Project-based activities include writing a narrative about their favorite day and creating a persuasive poster about their favorite treat.

#### Calvert Grade 2 English Language Arts

In this course, students will increase the complexity of foundational phonics, high-frequency words, sentence creation, and other daily activities. Reading, writing, speaking, and listening skills are intertwined so that students learn them organically and with purpose. Students will read a variety of trade books, shorter texts, excerpts, articles, and leveled readers across genres to keep engagement high and learning fresh. Through reading and writing, students explore character analysis, story structure, biographies, and interpretation of informational texts. Projects include exploring pioneer life through narrative, informational, and persuasive writing.

#### Calvert Grade 3 English Language Arts

Students in ELA will apply critical thinking skills in their reading and learn the skills to become independent readers and writers. In this course, students will complete the foundations of reading independently and take more ownership of their learning. Students will read multiple genres of both literary and informational texts and use these texts as models for their own writing. The course emphasizes close reading opportunities that focus on the development of complex topics such as the organizational structure of text, nuance in word meanings, and the development of an argument. Projects include creating an informational brochure about unique places on the planet.

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## Calvert Grade 4 English Language Arts

In ELA, students will develop reading and writing skill with a growing focus on nonfiction and opinion writing. Exploring topics like natural disasters and currencies, students will increase their autonomy as readers and sharpen claims supported by evidence. Students will learn how to conduct research, integrate information, make connections across sources, and organize information. Later, they will demonstrate their understanding and skills through project-based activities such as creating an investigative journalism report for a television news segment.

## Calvert Grade 5 English Language Arts

In ELA, students will prepare for the rigor of middle school curriculum by studying complex sentence structure and reading challenging nonfiction. Structured novel study prepares students for middle school, as does the examination of multiple types of texts and writing. Students will read both fiction and nonfiction texts, and are able to write opinion pieces with strong evidential support. Student choice is at the heart of all projects, and students will write their own sci-fi narrative and choose a topic for an opinion piece on issues that impact their community.

## Calvert Kindergarten English Language Arts

Kindergarten ELA begins to develop students' reading skills through daily phonemic awareness, phonics, print concepts, and decoding work. Students will learn how to identify characters, settings, and major events in a story, all contextualized in authentic texts. Projects include writing about communities and finding patterns in the real world. Students will be given multiple opportunities to practice their foundational skills when thinking and communicating about texts.

## Social Studies

### Calvert Grade 1 Social Studies

Social Studies introduces concepts in economics and good citizenship. Students will be introduced to simple geographic models, such as maps, globes, and graphs, to identify cultural and environmental characteristics of places. They will learn about the many uses of maps by making a "Personal Atlas to My Life." History comes alive with read-aloud narratives about well-known explorers, political figures, inventors, and leaders in American life.

### Calvert Grade 2 Social Studies

Students study the early history of the United States, its geography, and the cultures that inhabited it from the Native Americans to the colonists through video, timelines, and interactive maps and images. Students will also learn about U.S. government, economics, and trade concepts. They will demonstrate knowledge through project-based activities such as creating a travel guide of their favorite places and making a plan to earn and save money.

### Calvert Grade 3 Social Studies

Students in grade 3 Science are encouraged to think critically about their observations and explore multiple answers to problems. Students strengthen their writing skills through detailed reporting, logical reasoning, managing data in tables, and graphical drawings. Students conduct sophisticated research using variables, technology, engineering, and fair test practices. While exploring force and motion, cause and affect relationships, the life cycles of living organisms, and weather patterns, students will make claims about the merit of solutions by citing relevant evidence that meet specific criteria. Students also begin learning how limited resources and materials put constraints on problem-solving.

### Calvert Grade 4 Social Studies

Students will focus on the geography and history of early North America from the Age of Exploration and colonial America to the American Revolution, and westward expansion up until the Civil War. Lessons employ the use of various historical thinking and close reading skills to investigate multiple sources of information, including primary sources to consider historical events from different perspectives of people at the time. Students will examine how the geographic location and environment of their state have influenced the state's economic, cultural, and civic heritage through project-based learning opportunities.

### Calvert Grade 5 Social Studies

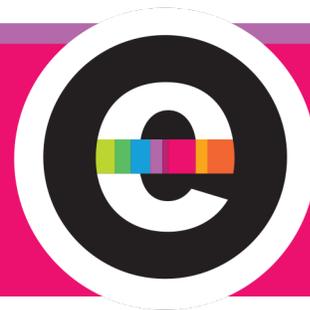
In Social Studies, students will learn about the growth of the United States after the Civil War—through World War I, World War II, the Cold War, and into the modern era. Students will employ historical thinking skills and activities to investigate and analyze historic events, social and political changes, and economic changes, connecting the events of the past to their world today, including how their state contributed to major revolutions in thought, such as the Civil Rights Movement.

### Calvert Kindergarten Social Studies

This course introduces kindergarten students to America's historical figures, symbols, and holidays. In project-based units, students will explore globes and maps by making their very own treasure maps. Students will also explore the concept of jobs and money by writing a résumé that highlights their special talents.

## Science

# Course Catalog



## Calvert Grade 1 Science

In Science 1, students will make observations about light, sound, matter, plants, animals, and the sky to thoroughly think about problems and ask questions. Students will discover and explore patterns to understand the relationships between objects, animals, and the environment. Students will work individually and collaboratively to compare and test designs to develop solutions. Students will also plan and conduct investigations to produce data as evidence and use a variety of devices to communicate results.

## Calvert Grade 2 Science

Students in grade 2 will use project-based learning to observe and construct evidence-based accounts of natural phenomena. Students will conduct virtual labs to observe properties, gather information, analyze data, test tools, and construct evidentiary arguments. Students will obtain information from various sources and compare findings to develop solutions. In Science 2, students will explore the various states and properties of matter and the impact of heating and cooling molecules. Students will also discover the impact of living things and the elements on the environment and use engineering principals to design tools to solve real-world concerns.

## Calvert Grade 3 Science

Virtual labs provide an opportunity for students to practice gathering evidence and defending their claims. The Grade 3 curriculum weaves S.T.E.M. skills into lessons to spark a child's curiosity about these fields. Students learn about plant and animal reproduction, inheritance, and life cycles by devising a plan to save the bee population.

## Calvert Grade 4 Science

In this course, students will use models to test interactions as they learn, understand, and test scientific theories. Through the study of natural earth processes, the transfer of energy, and the impact of weather on living things, students will use measurements to investigate and predict reasonable outcomes based on their observation of patterns and lab results. Students will test multiple outcomes to solutions and construct arguments supported with evidence, models, and organized data. Students will continue to learn the importance of communicating ideas through collaborative projects.

## Calvert Grade 5 Science

In this course, students will gain a deeper understanding of the transformation of energy and its impact on the environment and living things. Through advanced labs and interactive activities students will discover gravity, systems in space, matter cycles, and the impact humans have on the environment. Students will understand major earth systems and conduct investigations to learn the relationship between living organisms and energy. Students will quantify their solutions and measure and graph certified results. Students will further discover ways communities use scientific ideas to protect the planet's resources and the environment.

## Calvert Kindergarten Science

Students will learn introductory concepts of physical science, life science, and earth science. Students will begin to investigate their world and develop questions based on their observations. They will employ S.T.E.M. skills through virtual labs, interactive activities, collaborations, simulations, and project-based activities. Kindergarten students will learn to ask and answer scientific questions about natural patterns, living things, and the impact they have in relationship to each other and their environment. Using the scientific method, students will define simple problems, analyze data, design sketches and models, and use evidence to construct arguments and communicate solutions.