

Carlynton Cyber Academy Program of Studies



Grades K– 6

Kindergarten

Kindergarten English Language Arts

GRADE(S): K-6 :

This course will focus on skills related to language arts in reading, writing, listening, and speaking. A development of communication skills through oral and written expression will be integrated throughout the curriculum using differentiated instruction. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

Kindergarten Math

GRADE(S): K-6

This course will prepare students in four mathematical areas: numbers and operations, algebraic concepts, geometry, as well as measurement, data, and probability. Emphasis will be placed on number sense and the application thereof. Concepts will be integrated throughout the curriculum and applied to real world situations.

Kindergarten Writing

GRADE(S): K-6

Kindergarten students will be exposed to a wide variety of genres to enhance comprehension of literature and informational texts. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

Kindergarten Social Sciences

GRADE(S): K-6

Students will learn about why they are unique individuals. In addition, they will explore how to relate to the world around them and understand how the past has affected their personal lives. Students will be involved in various instructional activities that focus on gaining a better understanding of themselves, their individual responses to rules, and how they are affected by the roles of community helpers. Students will compare themselves to people of the past and people of different cultures. The students will also be introduced to maps, globes, and national symbols. They will apply their understanding of this knowledge through class discussion and interaction with others within the classroom setting. Science instruction in the SVSD will be based on inquiry-based learning process in a developmentally appropriate method using a learning cycle. At the kindergarten grade level students will be actively engaged in learning related to life sciences, physical sciences, and earth and space.

Art, Music and Physical Education can be offered through a Specials Log.

Grade 1

1st Grade English Language Arts

GRADE(S): K-6

This course will focus on skills related to language arts in reading, writing, listening, and speaking. A development of communication skills through oral and written expression will be integrated throughout the curriculum using differentiated instruction. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

1st Grade Math

GRADE(S): K-6

This course will promote mathematical knowledge and understanding in the areas of numbers, number systems and relationships; computation; measurement; mathematical reasoning and connections; geometry; mathematical problem-solving and communication. The students will integrate and apply these concepts to real-life experiences.

1st Grade Writing

GRADE(S): K-6

First grade students will be exposed to a wide variety of genres to enhance comprehension of literature and informational texts. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

1st Grade Social Sciences

GRADE(S): K-6

The students will learn about the diversity of people, compare their lives to those of their ancestors, and develop respect for these groups. The students will identify symbols of the United States, explain their importance, and be exposed to the importance of the Constitution and the framers of historical documents. The students will also discuss influential figures in U.S. history and the cause and effect of historical events. The students will be involved in various activities that focus on the integration of map skills, interpreting data, interviewing skills, communication skills and process writing. While they are applying these skills, the students will gain a better understanding of how self relates to small groups and their community. As the students' perception grows, they will continue to expand their understanding of their role in the larger democratic society and as a citizen of the world.

Science instruction in the will be based on the inquiry learning process using a developmentally appropriate method. The First Grade Science Curriculum will integrate the following components: Life Science, Earth Science, and Physical Science. Using the STC Solids and Liquids and Organisms Modules students will be engaged in the inquiry-based learning process where they will communicate their thoughts and ideas both orally and in written form.

Art, Music and Physical Education can be offered through a Specials Log.

Grade 2

2nd Grade English Language Arts

GRADE(S): K-6

This course will focus on skills related to language arts in reading, writing, listening, and speaking. Second grade students will be exposed to a wide variety of text formats and genres to enhance comprehension of literature and informational texts. A development of communication skills through oral and written expression will be integrated throughout the curriculum using differentiation instruction. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

2nd Grade Math

GRADE(S): K-6

In second grade mathematics, students are actively engaged using concrete objects and pictorial/symbolic representations to help them develop mathematical understanding. Technology is used to enhance students' learning. Students use a variety of strategies to develop an understanding of addition and subtraction situations. Operations are expanded to include an understanding of multiplication concepts. The second-grade curriculum focuses on the mathematical processes of problem solving, reasoning, estimating, communicating, and connecting mathematical concepts to real life situations while incorporating the mathematical practices listed below. It emphasizes the areas of numbers and operations, algebraic concepts, geometry, measurement, data, and probability.

2nd Grade Writing

GRADE(S): K-6

Second grade students will be exposed to a wide variety of genres to enhance comprehension of literature and informational texts. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

2nd Grade Social Studies

GRADE(S): K-6

The foundation for social studies, economics, geography, history, and the workings of government begin with children's personal experiences and their initial understanding of themselves in relation to their families, homes, and school. As their perception grows, they further expand their understanding of their role in the community, larger democratic society and as a global citizen. Using an interdisciplinary approach, teachers facilitate children's social studies skill development by helping them engage in active, age-appropriate investigations that build knowledge and understanding. All concepts will be integrated throughout the curriculum and applied to the students' daily life. Science instruction in the SVSD will be based on inquiry-based learning process in a developmentally appropriate method using a learning cycle. At the 2nd grade level students will be actively engaged in learning related to the physical, earth, and life sciences.

Art, Music and Physical Education can be offered through a Specials Log.

Grade 3

3rd Grade English Language Arts

GRADE(S): K-6

This course will focus on skills related to language arts in reading, writing, listening, and speaking. Third Grade students will be exposed to a wide variety of texts, formats, and genres to enhance comprehension of literature and informational texts. A development of communication skills through oral and written expression will be integrated throughout the curriculum using differentiated instruction. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

3rd Grade Math

GRADE(S): K-6

This course is the developmental study of mathematical concepts and applications for third grade students. Mathematics at this grade level will continue the solid foundation previously developed in whole numbers, addition, subtraction, multiplication, and division. Third grade curriculum will take previously mastered concepts and support students' ability to learn and apply more demanding mathematical concepts and procedures. Tasks are infused into the third-grade curriculum with the intent of providing opportunity for the students to practice applying mathematical ways of thinking to real world issues and challenges.

3rd Grade Writing

GRADE(S): K-6

Third grade students will be exposed to a wide variety of genres to enhance comprehension of literature and informational texts. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

3rd Grade Social Sciences (3SCY)

GRADE(S): K-6

The students will learn about the development of different types of communities and how culture, time, and geography have influenced the formation, type, economics, and laws of those communities. Students will be involved in various instructional activities that focus on the integration of map skills, interpreting data, research skills, and communication skills. While they are applying these skills the history, geography, culture, economics, and government of our local communities, state, national, and world communities will be addressed. Science instruction in the SVSD will be based on inquiry-based learning process in a developmentally appropriate method using a learning cycle. At the third-grade level students will be actively engaged in learning related to physical, earth, and life science.

Art, Music and Physical Education can be offered through a Specials Log.

Grade 4

4th Grade English Language Arts

GRADE(S): K-6

The course will focus on skills related to Language Arts in the areas of Reading, Writing, Listening, and Speaking. Fourth grade will be exposed to a wide variety of text formats and genres to enhance comprehension of literature and informational texts using metacognitive strategies. A development of communication skills through oral and written expression will be integrated throughout the curriculum using differentiated instruction. Students will build on previous learning to analyze texts at an in-depth level and communicate this in writing. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

4th Grade Math

GRADE(S): K-6

Fourth grade mathematics students will demonstrate: (1) developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends; (2) developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers; (3) understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry.

4th Grade Writing

GRADE(S): K-6

Fourth grade students will be exposed to a wide variety of genres to enhance comprehension of literature and informational texts. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

4th Grade Social Sciences

GRADE(S): K-6

Students will learn about the history, geography, culture, government, and economics of Pennsylvania. Students will be introduced to the geographic regions of the United States. Students will be involved in various instructional activities that focus on the integration of map skills, interpreting data, research skills, communication skills, and process writing into a comprehensive study of Pennsylvania. While they are applying these skills, the geography, culture, and economics of Pennsylvania will be addressed. From this, the students will gain a better understanding of our state and its diverse culture, history, government, and economic development. The students will also develop an understanding of United States Geography.

Science instruction in the SVSD will be based on inquiry-based learning process in a developmentally appropriate method using a learning cycle. At the 4th grade level students will be actively engaged in learning related to life cycles and habitats, water cycle and erosion, forces and motion, and food and nutrition.

Art, Music and Physical Education can be offered through a Specials Log.

Grade 5

5th Grade English Language Arts

GRADE(S): K-6

This course will focus on skills related to language arts in the areas of reading, writing, listening, and speaking with an emphasis on evidence-based analysis. Fifth grade students will be exposed to a wide variety of genres and diverse media formats to enhance comprehension of literature and informational texts. Communication skills will be developed through oral and written expression and embedded vocabulary acquisition and use. This course will allow students to develop strategies and skills needed to be successful in all academic areas.

5th Grade Math (5MCY)

GRADE(S): K-6

Fifth grade mathematic students will demonstrate: (1) developing fluency with addition and subtraction of fractions, and developing understanding of the multiplication of fractions and of division of fractions in limited cases (unit fractions divided by whole numbers and whole numbers divided by unit fractions); (2) extending division to 2-digit divisors, integrating decimal fractions into the place value system and developing understanding of operations with decimals to hundredths, and developing fluency with whole number and decimal operations; and (3) developing understanding of volume.

5th Grade Science

GRADE(S): K-6

Fifth grade science will encompass 18 weeks of Environments and 9 weeks of Astronomy. Sections I, II and III are skills and processes to embed into the content areas. The first two sections will incorporate the PA Core Academic Standards for Reading in Science and Technology, and Academic Standards for Writing in Science and Technical Subjects. The third section, Inquiry Process Skills, provides an overview of the inquiry-based approach to teaching science. All 3 of these sections need to be addressed to support the delivery of the content. The Environments include ecosystems, plants and animals, and human impact. The study of Astronomy includes planet characteristics, and the relationship between and among Earth, Moon, Sun, and other celestial bodies. Note: Nine weeks of health instruction is blended throughout the Science year.

5th Grade Social Studies

GRADE(S): K-6

This course in American History will give the students the opportunity to explore and discover for themselves what freedom means, how individualism can lead to both rewards and problems, and what responsibilities democracy entails. Through this course, the students will understand the American way of life and the democratic standards on which this life had been built by learning about the beginnings of our country from the Age of Exploration through the writing of the Constitution. This course will present a means to take the students one step beyond the concrete so that they can explore the ideas, values, and alternatives upon which this country was built. Students will understand the importance of being a responsible citizen in the continuation of our democratic way of life. Through this course the students will also develop skills relating to geography and economics. The first three pages of this document address the reading and writing components in Social Studies.

Art, Music and Physical Education can be offered through a Specials Log.

Grade 6

6th Grade English Language Arts

GRADE(S): K-6

This course is designed to help learners develop active reading skills, utilize reading strategies, and analyze complex texts. Students will explore various types of literature along with non-fiction texts. Grammar, vocabulary, and conventions of English will be cultivated through the analysis of literature and by implementing the writing process.

6th Grade Math

GRADE(S): K-6

6th grade mathematical students will demonstrate (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting and using expressions and equations; and (4) developing understanding of statistical thinking.

6th Grade Science (6SCC)

GRADE(S): K-6

Sixth grade science will encompass 27 weeks of Earth Science using the SEPUP Module: Issues & Earth Science. Sections I, II and III are skills and processes embedded into the content areas in this curriculum. Section I, Inquiry Process Skills, provides an overview of the inquiry-based approach to teaching science. Sections II & III will incorporate the PA Core Academic Standards for Reading in Science and Technology and Academic Standards for Writing in Science and Technical Subjects. All three of these sections need to be addressed to support the delivery of the content. Earth Science includes studying soils scientifically, rocks and minerals, erosion and deposition, plate tectonics, weather, and atmosphere. Note: In addition to the earth science units, health instruction will occur throughout the year. Health topics include drug and alcohol prevention, the immune and reproductive systems, as well as conflict resolution.

6th Grade Social Studies

GRADE(S): K-6

Students will learn about the geography, civics, government, economics, culture, and history of Asia, Latin America, Europe and Russia, and Africa and the Middle East. The first two sections will incorporate the PA Core Academic Standards for Reading in History and Social Studies and Academic Standards for Writing in History and Social Studies. The third section provides the specific content standards. All three sections need to be addressed to support the delivery of the content. Students will engage in various instructional activities that focus on the integration of map skills, data interpretation, research skills, communication skills, and technology into a comprehensive study of history and its effects on today's society. From this, they will gain a working knowledge and understanding of the symbiotic relationships between geography, civics, government, economics, culture, and history.

Art, Music and Physical Education can be offered through a Special Log.