

Fourth Grade

Students will be able to:

Reading/English Language Arts

- Demonstrate an understanding of the meaning of grade-level high frequency words
- Apply decoding strategies to determine the meaning and spelling of unfamiliar words
- Demonstrate an understanding of reading in a variety of ways (summarize, make predictions, make inferences, draw conclusions, compare and contrast, etc.)
- Read fiction and nonfiction with increasing fluency and confidence by paying attention to punctuation
- Use graphic organizers to aid in comprehension and to order ideas
- Present writing that uses appropriate details, thoughtful organization, engaging voice, precise word choice, thoughtful sentence structure, and appropriate conventions and form
- Produce clear, well - organized responses to stories read or listened to, support the understanding of characters and events using specific details
- Speak clearly with appropriate tone, engage the audience, and stay on topic using grade-level vocabulary and grammatically correct sentences

Social Studies

- Explain local political institutions and historical developments with connections to New York State and United States history
- Describe the structure and functions of the different branches of the local, state, and national government
- Explain the rights and responsibilities of citizens in New York State and the United States
- Arrange historical events in a chronological manner with regard to student's local community and New York State

Mathematics

- Understand the **base-ten number system** (10 ones = 1 ten, 10 tens = 1 hundred, ... and 10 ten thousands = 1 hundred thousand) and place value including identifying places (ones, tens, ... ten-thousands) and the values of the digits in those places.
- Identify, represent, compare (using $<$, $>$, $=$, \neq)

and order **fractions and decimals**. Understand place values of the tenths and hundredths places.

- Understand **division** as a model for partitioning (e.g. How many candies does each person get if there are 15 candies to be shared among 3 people?) and repeated subtraction (e.g. how many 6-packs of soda are there in a case of 24 cans?).
- Understand the relationship between multiplication and division including that many situations can be modeled with either operation.
- Multiply (2-digit by 2-digit with regrouping) and divide (2-digit by 1-digit with remainders) accurately and efficiently and apply operations to solve problems.
- Demonstrate mastery of multiplication facts through 12 and proficiency with division facts through 12.
- Describe, extend, and make generalizations or rules about numeric (+, -, x, ÷) and geometric patterns
- Use the symbols $<$, $>$, $=$, \neq to compare expressions.
- Identify characteristics of polygons including finding the perimeter of polygons.
- Collect, organize, display, and analyze data. Construct, read and interpret tables, bar graphs and pictographs.

Science

- Know scientists need to use inquiry skills to interpret and understand the world around them
- Understand organisms inherit genetic information in a variety of ways that result in continuity of structure and function between parents and offspring
- Recognize individual organisms and species change over time
- Understand organisms maintain a dynamic equilibrium that sustains life
- Understand plants and animals depend on each other and their physical environment
- Recognize human decisions and activities have had a profound impact on the physical and living environments
- Understand that the sun is the ultimate source of energy for life and physical cycles on the Earth
- Understand matter has properties that can be observed, measured, recorded and changed
- Recognize energy exists in many forms, and when these forms change energy is conserved
- Understand energy and matter interact through forces that result in changes in motion
- Realize many of the phenomena that we

observe on Earth involve interactions among components of air, water, and land

Physical Education

- Demonstrates mature loco-motor movement forms and mature fine motor skills, and demonstrates progress toward mature physical skill patterns of catching, throwing, kicking and striking
- Meets the age and gender specific health-related fitness standards defined by Fitnessgram
- Identifies physical and psychological benefits that result from long-term participation in physical activity
- Demonstrates responsible and appropriate personal and social skills

Health

- Identify adults to trust in personal and community situations
- Demonstrate age-appropriate hygiene and understand that proper hygiene is connected to disease prevention
- Take responsibility to avoid harmful drugs/substances
- Identify food groups from food pyramid, identify healthy vs. non-healthy food and activity choices
- Identify and communicate emotions

Technology

- Know keyboard shortcuts
- Access and save to shared folders
- Word process, spell check, format font and size
- Navigate to AECSD web site
- Use electronic resources (atlas, encyclopedia, magazine, almanac)
- Cite sources

The Arts

- Understand music and art as it relates to history and culture
- Understand and apply concepts and skills found in art and music. Make creative decisions and complete projects
- Apply melodic and rhythmic skills through song, movement and playing classroom instruments