

010110
110011
101000
0001

Science, Technology, Engineering, Entrepreneurship, and Math (STEEM)

Students will be able to:

- apply science and math skills to design solutions to practical problems
- develop technology design skills
- understand and analyze product profitability
- develop cost-effective designs

Instructional Technology

Students will be able to:

- continue to develop proper keyboarding skills through the Typing Agent program
- demonstrate and display work on document camera and interactive whiteboard
- create presentations through PowerPoint and PhotoStory
- engage in virtual labs and participate in self-managed online learning and research
- access online curriculum resources such as connectED (EveryDay Math 4), Wordly Wise, etc.

PE/Health

Students will be able to:

- demonstrate mature patterns of locomotor skills in dynamic small group practice tasks
- perform yoga and stretching activities to enhance motor skill development
- combine traveling with manipulative skills for execution to a target (e.g. scoring in soccer)
- apply movement concepts to strategy in game situations

Art

Students will be able to:

- create observational drawings using varied media
- practice the process of creating a painting
- practice precision using new art media and methodology
- create a work of art that reflects a social value or belief
- collaborate in the creation and display of a work of art

Music

Students will be able to:

- identify elements of music both aurally and using notation - music symbols and terms
- analyze a variety of forms and structures, including the 12-bar blues
- recognize and interpret a new time signature: 6/8
- sing and play instruments alone and with a small group a varied repertoire using good musical expression
- aurally identify and perform I IV and V chords – harmony

Media/Information Literacy

Students will be able to:

- evaluate print and electronic information for usefulness, relevance and accuracy
- take and organize notes into categories and use notes to create original writing
- select and read a variety of fiction and non-fiction formats to fulfill reading goals
- cite sources according to model provided by teacher
- analyze text and illustrations of recently published literature

Character Education

Students will be able to:

- develop decision-making, communication and life skills
- develop an understanding of character values such as respect, optimism, citizenship, kindness, and self-esteem
- strengthen their peer relationships by utilizing positive social skills
- implement positive coping skills to handle negative emotions
- gain an overall perspective of the middle school transition process and learn about the resources available in the middle school to help them problem-solve



Grade 5

Curriculum Expectations
2017-18

Welcome to 5th Grade!

"Tell me and I forget, teach me and I may remember, involve me and I learn"

- Benjamin Franklin

This brochure defines what your child should be able to do in the areas of mathematics, literacy, science, social studies, world languages, STEEM, art, music, media center, and physical education.

Some additional activities for our fifth graders are our trips to Buehler Science Center and Liberty Hall. We will also experience a day in the life of a Colonial American on Colonial Day.

We will work together to ensure your fifth grader is ready for the middle school. We will go to the middle school to see the play and attend an orientation.

We hope that you will become familiar with the learning goals that have been established for your fifth grader.



Mathematics

Students will be able to:

- understand and apply area and volume formulas for various geometric shapes
- use whole number exponents to denote powers of ten
- multiply and divide multi-digit numbers and multiply a mixed number by a whole number or a fraction
- create visual models and apply strategies to add, subtract, multiply, and divide fractions
- explain word problem-solving strategies verbally and in written form
- construct and interpret line graphs to display changes in data over time
- use coordinates to plot points on a graph in the first quadrant
- place fractional data on a line plot; use information in line plots to solve single-step problems
- read and write decimals to the thousandths and compare two decimals to thousandths using symbols ($>$, $<$, $=$)
- classify two-dimensional figures in a correct category according to a hierarchy



Literacy

Students will be able to:

Reading

- read independently, fluently (with stamina), and comprehend grade-level materials with literal and inferential understanding
- understand and analyze literary elements such as theme, characterization, structure, setting, and conflict/resolution in plot
- understand characteristics of specific genres studied: fantasy, historical fiction, non-fiction, narrative, realistic fiction, and poetry
- contribute meaningful ideas during class discussion and book groups and prepare for book groups
- respond effectively to literature through writing
- cite from text to support ideas

Writing

- write independently during Writer's Workshop
- maintain a Writer's Notebook for generating, organizing and drafting ideas
- revise and edit independent work with peer and teacher support, develop focused paragraphs, use effective transitions, and write and punctuate dialogue correctly
- write for a variety of purposes and audiences
- demonstrate stamina in independent writing

Language

- determine or clarify meaning of unknown or multiple meaning words from a range of strategies
- acquire and use accurately grade-appropriate academic vocabulary
- apply correct grade-level grammar usage

Speaking and Listening

- respond to multiple text types by reflecting, making connections, taking a position, and sharing understanding
- listen, interact, and contribute in discussions by discussing more complex ideas
- ask focused questions during reports and presentations, and respond to questions by providing elaborate details



Social Studies

Students will be able to:

- examine the first three eras of United States history
- integrate their understandings of geography, economics, and civics in order to better understand the history of our nation
- understand and compare the significant developments in the New England, Southern, and Middle colonies
- develop awareness of the impact of the slave system in the Americas and its impact on the life of Africans
- understand the differences within the American Colonies
- develop awareness of the political, economic, and ideological causes of the American Revolution



Science

Students will be able to:

- generate scientific questions and conduct investigations based on observations, and research
- develop various strategies to record data and conduct simple investigations
- engage in hands-on and virtual labs
- study units on Earth and Space Science, Life Science (plants and animals), and Physical Science (properties of matter)



World Language

Students will be able to:

- develop language basics in Spanish
- develop Spanish language skills related to family and friends, shopping, and travel
- engage in Spanish cultural activities.