The New York State Standards guide English Language Arts instruction in the Franklin Square Schools. The curriculum emphasizes the connection among reading, writing, listening, and speaking.

As listeners and readers, students will collect facts and ideas; discover relationships, analyze information, relate literature to their own lives, and use oral and written language for effective social communication.

As speakers and writers, students will use oral and written language to acquire, apply and transmit information; for self-expression, artistic creation, and to present opinions and make judgments.

**READING**

Read to collect and interpret data, facts, and ideas

Distinguish between fact and opinion

Identify information that is implied rather than stated

Recognize how new information is related to prior knowledge of experience

Recognize how the author uses devices such as simile, metaphor, and personification to create meaning

Identify the ways in which characters change and develop throughout a story

Compare characters in literature to people in own lives

Evaluate information, ideas, opinions, and themes in texts by identifying

Use established and personal criteria to analyze and evaluate the quality of ideas and information in text

Recognize how one’s own point of view contributes to forming an opinion about information and idea

**WRITING**

Use at least three sources of information with appropriate citations to develop reports

Take notes to record and organize relevant data, facts, and ideas

State a main idea and support it with details and examples

Compare and contrast ideas and information among two or three sources

Write original imaginative texts

Create a lead that attracts the reader’s interest

Provide a title that interests the readers

Develop characters, create a setting, and establish a plot

Use examples of literary devices such as rhythm, rhyme, simile, and personification

Use vocabulary to create a desired effect
Write interpretive essays, in order to:

Summarize the plot
Describe the characters and how they change
Describe the setting and recognize its importance to the story
Draw a conclusion about the work
Interpret the impact of literary devices such as simile and personification
Respond to literature, connecting the response to personal experience
Use strategies such as note taking, semantic webbing or mapping, and outlining to plan and organize writing
Use supporting evidence from text to evaluate ideas, information, themes, or experiences
Use information and ideas from other subject areas and personal experiences to form and express opinions and judgments

LISTENING

Listen in order to:
Follow instructions which provide information about a task or an assignment
Identify essential details for note taking
Distinguish different genres, such as story, biography, poem, or play
Identify characters’ motivation
Form an opinion on a subject based on information, ideas, and themes
Use prior knowledge and experiences in order to more fully evaluate and analyze content of presentations

SPEAKING

Speak in order to:
Ask probing questions
Interview peers
Share information from personal experience
Share information from a variety of texts
Synthesize and paraphrase information
State a main idea and support it with facts, details, and examples
Compare and contrast information
Make connections between sources of information
Present original works such as stories, poems, and plays to adults and peers
Connect a personal response to literature to prior experiences or knowledge
Express an opinion or a judgment about information, ideas, opinions, themes, and experiences in books, essays, articles, and
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MATHEMATICS

The goal of our math program is to develop problem solving and reasoning abilities, and computational abilities. With an emphasis on thinking skills, the 5th grade curriculum will incorporate the following topics and skills:

- Read and write whole numbers to millions
- Compare and order numbers to millions
- Understand the place value structure of ten base ten number system
  - 10 ones = 1 ten
  - 10 tens = 1 hundred
  - 10 hundreds = 1 thousand
  - 10 thousands – 1 ten thousand
  - 10 ten thousands – 1 hundred thousand
  - 10 hundred thousands = 1 million
- Create equivalent fractions, given a fraction
- Compare and order fractions including unlike denominators (with and without the use of a number line) Note: Commonly used fractions such as those that might be indicated on ruler, measuring cup, etc.
- Understand the concept of ratio
- Express ratios in different forms
- Read, write, and order decimals to thousandths
- Compare fractions using <, >, or =
- Compare decimals using <, >, or =
- Understand that percent means part of 100, and write percents as fractions and decimals
- Recognize that some numbers are only divisible by one and themselves (prime) and others have multiple divisors (composite)
- Calculate multiples of a whole number and the least common multiple of two numbers
- Identify the factors of a given number
- Find the common factors and the greatest common factor of two numbers
- Use a variety of strategies to multiply three-digit by three-digit numbers. Note: Multiplication by anything greater than three digit multiplier/multiplicand should be done using technology.
Use a variety of strategies to divide three digit numbers by one and two digit numbers. Note: Division by anything greater than a two-digit divisor should be done using technology.

Evaluate an arithmetic expression using order of operations including multiplication, division, addition, subtraction and parentheses

Simplify fractions to lowest terms

Convert improper fractions to mixed numbers, and mixed numbers to improper fractions

Use a variety of strategies to add and subtract fractions with like denominators

Add and subtract mixed numbers with like denominators

Use a variety of strategies to add, subtract, multiply, and divide decimals to thousandths

Round numbers to the nearest hundredth and up to 10,000

Estimate sums and differences of fractions with like denominators

Estimate sums, differences, products, and quotients of decimals

Justify the reasonableness of answers using estimation

**Algebra Strand**

Define and use appropriate terminology when referring to constants, variables, and algebraic expressions

Translate simple verbal expressions into algebraic expressions

Substitute assigned values into variable expressions and evaluate using order of operations

Solve simple one-step equations using basic whole number facts

Solve and explain simple one step equations using inverse operations involving whole numbers

Evaluate the perimeter formula for given input values

Create and explain patterns and algebraic relationships (i.e., 2, 4, 6, 8...) algebraically: 2n (doubling)

Create algebraic or geometric patterns using concrete objects or visual drawings (i.e., rotate and shade geometric shapes)

Calculate the perimeter of regular and irregular polygons
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**Geometry Strand**

- Calculate the perimeter of regular and irregular polygons
- Identify pairs of similar triangles
- Identify the ratio of corresponding sides of similar triangles
- Classify quadrilaterals by properties of their angles and sides
- Know that the sum of the interior angles of a quadrilateral is 360 degrees
- Classify triangles by properties of their angles and sides
- Know that the sum of the interior angles of a triangle is 180 degrees
- Find a missing angle when given two angles of a triangle
- Identify pairs of congruent triangles
- Identify corresponding parts of congruent triangles
- Identify and draw lines of symmetry of basic geometric shapes
- Identify and plot points in the first quadrant
- Plot points to form basic geometric shapes (identify and classify)
- Calculate perimeter of basic geometric shapes drawn on a coordinate plane (rectangles and shapes composed of rectangles having sides with integer lengths and parallel to the axes)

**Measurement Strand**

- Use a ruler to measure to the nearest inch, ½, ¼, and 1/8 inch
- Identify customary equivalent units of length
- Measure to the nearest centimeter
- Identify equivalent metric units of length
- Convert measurement within a given system
- Determine the tool and technique to measure with an appropriate level of precision: lengths and angles
- Calculate elapsed time in hours and minutes
- Measure and draw angles using a protractor
- Determine personal references for customary units of length (i.e., your pace is approximately 3 feet, your height is approximately 5 feet, etc.)
- Determine personal references for metric units of length
- Justify the reasonableness of estimates
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Statistics and Probability Strand
Collect and record data from a variety of sources (i.e., newspapers, magazines, polls, charts, and surveys)
Display data in a line graph to show an increase or decrease over time
Calculate the mean for a given set of data and use to describe a set of data
Formulate conclusions and make predictions from graphs
List the possible outcomes for a single event experiment
Record experiment results using fractions/ratios
Create a sample space and determine the probability of a single event, given a simple experiment (i.e., rolling a number cube)

Science
Instruction in our schools employs a “hands-on” discovery approach to science that promotes the implementation of the scientific method. The science curriculum encourages students to think critically and reason scientifically. The science program presents in-depth exploration of three areas: Life Science, Physical Science and Earth Science. Topics for the fifth grade program include:

Life Science
Human Body Systems
Interactions in Ecosystems
Changes in Ecosystem

Physical Science
Changing Forms of Energy

Earth Science
Stars and Galaxies
Earth in Space
The Solar System and Beyond
The night sky
How astronomers learn about space
Stars and galaxies
Survival in Space
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The Solid Earth

Properties and uses of minerals and rocks
The rock cycle
Earth's structure
Fossils as clues to the age of rocks
The formation of mountains
Faults

HEALTH & SAFETY

Our goals are to develop healthy living habits and to provide children with information they need to prevent injury and/or abuse to themselves and others. In 5th grade, the learning experiences will include:

Understanding that individuals can protect their own health and safety
Practicing safety procedures regarding fire and electricity
Recognizing the elements of good health (proper nutrition, adequate rest, and exercise)
Developing an awareness of AIDS
Understanding body changes during adolescence (films)
Understanding the harmful effects of tobacco, alcohol and other drugs
Understanding the organs and functions of the skeletal and muscular systems
Avoiding bone & muscle injuries
Adolescent Growth and Development Program

As part of our District Adolescent Growth and Development Program, the 5th grade students will be viewing an educational film to teach them about the following New York State Health standards:

Anatomy of the reproductive organs
The physical changes that occur during puberty
The emotional issues associated with the onset of puberty
Good health and hygiene

If you do not want your child to be included in the Adolescent Maturity film, please notify your child’s teacher.
SOCIAL STUDIES

The grade five social studies program stresses geographic, economic, and social/cultural understandings related to the United States, Canada, and nations in Latin America today. These perspectives build on and reinforce historic and political content about the United States included in the grade four social studies program.

CONTENT UNDERSTANDINGS

Snapshot of the Western Hemisphere Today
Geography and Climate
Maps and other geographic representations
Political boundaries and regions
Governments and Political Systems
Political Rights and Civil Liberties
Documents that define values, beliefs, and principles of constitutional democracy
Struggle for rights
Economic Systems
Standard of Living
Level of Technology
Interdependence – implications for all countries
History of the United States, Latin America, and Canada
Exploration and Encounter
Three Worlds Meet: Europe, Americas, Africa
Important Historic Figures
Developing Nations
Revolutions and Independence
Westward Expansion, Civil War, Industrial Growth and Development
Students in the Franklin Square Schools are provided with opportunities to experience learning activities outside the regular classroom. In coordination with classroom topics, these special area classes enrich learning and contribute to the students’ development and knowledge. The special area subjects provide opportunities for students to demonstrate their special talents and skills in these areas:

**ART**
- Know and use visual art materials, concepts and techniques
- Express feelings, thoughts, and experiences (focusing on imagination and individual interpretation of subjects)
- Learn the color wheel and how to mix colors and achieve subtle refinements (lighten, darken, intensify, make color warm, cool, etc.)
- Respond to and analyze works of art
- Develop an appreciation for art
- Recognize the styles of particular artists and periods of history
- Practice good work habits and organizational skills
- Know and use a variety of art media (selecting materials best suited for needs, using materials to achieve a desired effect)
- Understand the cultural dimensions and contributions of the arts

**MUSIC**
- Rhythm:
  - Introduce more complex rhythms
- Meter
- Composing rhythmic patterns
- Notation:
  - Rhythmic notation
  - Melodic notation
- Elements of Music:
  - Continuation of rhythm, tempo, dynamics, melody, harmony, form
- Composing and Improvisation

**Orff Instrumentation**
- Accompaniments
- Improvisation
Singing:
Practice singing skills
Continuation of pitch

Listening:
Continue to develop good listening skills
Music appreciation

Performance:
Continuation of good performance practices

PHYSICAL EDUCATION
Skills (stressing form, control, moving targets, stationary targets, and accuracy) - Throwing, Catching, Batting, Dribbling, Kicking (student pitching)

Physical Activities:
Strategies (Refine offense/defense patterns, teach specific rules games, allow students to officiate and reinforce standards of cooperative behavior)

Rhythm and Dance (Emphasize social dynamics, advanced level dances, complex foot patterns and rhythms)

Physical Fitness:
Health Related Fitness/Wellness (Students establish pulse/respiration measures of exercise, refine cool down/warm up exercises, identify muscular skeletal form, stretch and strengthen muscles through physical activities)

Personal Goals (Personal programs to improve cardiorespiratory endurance, flexibility, muscular strength, endurance, and body composition; evaluate program for fitness)

Sportsmanship (Accommodates individuals with different skill and development levels)

Community Resources: (Identify resources available within the community and county to engage in physical activity)
COMPUTER EDUCATION
The students in the Franklin Square Schools have access to computers both in the computer lab, and in their own classrooms. In 5th grade the students are provided with opportunities to apply the knowledge they have learned in their classrooms about the United States to develop their own ideas in a computer project. The following computer skills will be developed:

- Integrating graphics
- Creating a multimedia presentation of researched information
- Incorporating scanned images into projects
- Utilizing sound clips to enhance presentations

LIBRARY MEDIA CENTER
When the fifth grade students visit the school library media center, the following skills will be stressed:

- Practicing library procedures
- Selecting books for classroom projects
- Learning the format of a simple bibliography
- Using the Dewey Decimal System
- Practicing card catalog skills with an emphasis on annotation and cross referencing
- Recognizing the Junior Book of Authors and Illustrators
- Increasing reference skills to include an almanac, a biographical dictionary, an atlas, the Thesaurus, special encyclopedias, CD-ROM, and on-line sources
- Using independent research skills
- Engaging in various literary forms (folklore, realistic fiction, and biography)
- Celebrating holidays and themes through literature
- Using computers and other state-of-the-art technology within the library program
- Using multi-media materials (videos, filmstrips, and audio cassettes) for literature and pleasure
- Developing an appreciation of literature and a love for reading