

# LOWER SCHOOL

## CURRICULUM GUIDE

2023-2024





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# PRESCHOOL

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## LANGUAGE & LITERACY

### Early Literacy

- Handle books appropriately
- Understand basic way to read a text
- Differentiate letters from numbers
- Identify basic features of print materials
- Associate letters with their sounds
- Recognize some upper case and lower case letters
- Recite familiar rhymes and songs
- Know some rhyming words
- State full name and identify written name
- Understand and follow multi-step directions
- Make predictions while reading a text
- Answer prompted questions about texts

### Writing

- Develop prewriting skills through fine motor work
- Form some letters
- Use a combination of drawing, writing, and dictating to communicate

## MATHEMATICS

- Count out loud from 1-10
- Recognize written numbers 1-10
- Sort objects into groups based on shape, size, or color
- Count to tell the number of objects 1-5
- Recognize common shapes
- Find and create patterns

## SCIENCE

- Recognize difference between living and non-living things
- Identify basic needs of plants and animals
- Make predictions about results of experiments
- Explore and describe motion of objects
- Name and understand different seasons
- Identify objects found in day and night sky

## SOCIAL STUDIES

- State rules and consequences
- Identify characteristics of self
- Suggest simple solutions to peer conflict
- Identify common community workers
- Recognize and respect emotions of others
- Follow classroom rules for behavior
- Identify individual choices and explain them
- Understand concepts of family
- Identify daily routines

## SOCIAL/EMOTIONAL DEVELOPMENT

- Identify different emotions
- Exhibit socially accepted expressions of emotions
- Interact in socially accepted ways
- Participate in reciprocal communication
- Use appropriate words and actions to solve conflicts
- Ask for help when needed
- Identify and assist when others need
- Display pride and confidence in self
- Develop positive relationships with peers
- Develop positive relationships with adults
- Adapt to change or transitions




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# PRESCHOOL

## (CONTINUED)

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### APPROACHES TO LEARNING

- Demonstrate willingness to participate in new experiences
- Engage in play with other children
- Use play to express ideas, thoughts, and feelings
- Make and explain new creations through play
- Relate knowledge from one experience to another
- Use positive approaches and coping skills to solve problems
- Try to solve problems independently
- Demonstrate persistence

### PHYSICAL EDUCATION

- Follow directions
- Gross and fine motor skills
- Body awareness in space
- Locomotor activities
- Stretching and aerobic exercises
- Hand/eye coordination activities
- Underhand/overhand throwing
- Teamwork activities

### ART

- Basic skills in use of drawing, painting, gluing, cutting
- Use of tools and materials
- Social and listening skills
- Development of fine motor skills

### MUSIC

- Follow directions
- Social skills
- Emotional development
- Tempo variations
- Pitch exploration
- Song fragments (echo songs, call and response)
- Simple songs
- Arioso (singing improvisation)
- Movement exploration
- Movement for form and expression (finger plays, action songs, circle games, etc.)
- Beat motions (rhymes, chants, with recorded music, on rhythm and tonal instruments)
- Songs tales (stories and drama, audience etiquette)

### SPANISH

- Introduction to Spanish vocabulary through songs and games

### LIBRARY

- Introduction to the library and proper library procedures
- Proper care of books
- Introduction to a variety of children's literature
- Literature appreciation and storytelling
- Sequencing and retelling

### INTEGRATED SCIENCE

- Develop fine motor skills through hands-on building projects
- Explore color theory through art
- Develop spatial sense and practice movement
- Recognize shapes and patterns
- Work collaboratively with others
- Practice sequencing and planning ahead



# — JUNIOR KINDERGARTEN —

## READING & WRITING

### Reading

- Recognize upper- and lower-case letters
- Associate letters with sounds
- Identify written name and names of classmates
- Recognize and create basic rhymes
- Identify beginning and ending sounds of words
- Begin blending and segmenting words and syllables
- Examine illustrations
- Handle books appropriately and understand the basic way to read a text
- Make predictions while reading a text
- Consider similarities & differences in texts and make connections between texts
- Explore different types of books
- Ask and answer questions about a text
- Consider what the reader can learn from a book

### Writing

- Develop pre-writing skills through fine motor work
- Engage in interactive and shared writing
- Form some upper- and lower-case letters
- Use a combination of drawing, writing, and dictating to communicate

## MATHEMATICS

- Count with understanding and recognize "how many" in sets of objects with 10
- Develop understanding of the relative position and magnitude of whole numbers through 20
- Develop a sense of whole numbers and represent or use them in flexible ways
- Sort, classify, and order by size, number, and other properties
- Recognize and repeat patterns
- Recognize and name two-dimensional objects
- Recognize the attributes of length and weight; compare and order objects according to these attributes
- Sort and classify objects according to their attributes
- Determine positional locations using mat-specific vocabulary
- Represent information through basic graphing

## SCIENCE

- Recognize difference between living and non-living things
- Identify basic needs of plants and animals
- Make predictions about results of experiments
- Explore and describe motion of objects
- Name and understand different seasons
- Identify objects found in day and night sky

## SOCIAL STUDIES

- State rules and consequences
- Identify common American symbols
- Identify characteristics of self
- Suggest simple solutions to conflicts with peers
- Identify common community workers
- Recognize and respect emotions of others
- Follow classroom rules for behavior
- Identify individual choices and explain them
- Recognize differences between work and play
- Identify daily routines



# — JUNIOR KINDERGARTEN —

## (CONTINUED)

### **SOCIAL/EMOTIONAL DEVELOPMENT**

- Identify different emotions
- Exhibit socially accepted expressions of emotions
- Interact with others in socially accepted ways
- Participate in reciprocal communication
- Use appropriate words and actions to solve conflicts
- Ask for help when needed
- Identify when others need help and assist
- Display pride and confidence in self
- Develop positive relationships with peers
- Develop positive relationships with adults
- Adapt to change or transitions

### **APPROACHES TO LEARNING**

- Demonstrate willingness to participate in new experiences
- Engage in play with other children
- Use play to express ideas, thoughts, and feelings
- Make and explain new creations through play
- Relate knowledge from one experience to another
- Use positive approaches and coping skills to solve problems
- Try to solve problems independently with multiple solutions
- Demonstrate persistence

### **PHYSICAL EDUCATION**

- Following directions
- Gross and fine motor skills
- Left-to-right movement concepts
- Body awareness in space
- Locomotor activities
- Stretching and aerobic exercises
- Hand/eye coordination activities
- Underhand/overhand throwing
- Teamwork activities

### **ART**

- Basic skills in drawing, painting, gluing, cutting, use of tools and materials
- Basic color theory
- Visual awareness
- Basic design ideas and creative expression
- Printmaking, mosaics
- Assembly of parts into a whole
- Development of fine motor skills

### **MUSIC**

- Emotional development
- Read rudimentary rhythm patterns
- Tone matching concepts of high and low tones
- Tempo variations
- Pitch exploration
- Song fragments (echo songs, call and response)
- Simple songs
- Arioso (singing improvisation)
- Movement exploration
- Movement for form and expression (finger plays, action songs, circle games, etc.)
- Beat motions (rhymes, chants, with recorded music, on rhythm and tonal instruments)
- Songs Tales (stories and drama, audience etiquette)



# — JUNIOR KINDERGARTEN —

## (CONTINUED)

### **SPANISH**

- Introduction to Spanish vocabulary through songs and games

### **LIBRARY**

- Introduction to the library and proper library procedures
- Proper care of books
- Introduction to a variety of children's literature
- Literature appreciation and storytelling

### **INTEGRATED SCIENCE**

- Develop fine motor skills through hands-on building projects
- Explore color theory through art
- Develop spatial sense and practice movement
- Recognize shapes and patterns
- Work collaboratively with others
- Practice sequencing and planning ahead

### **CHESS**

- Chess basics: what it is, who you are, and how to win
- How pieces move and work together
- How to check the king and how to stop a check
- Count pieces
- Strategies and tactics
- Checkmates with variety of pieces
- Consequences of moves and recognizing mistakes
- Good sportsmanship



# KINDERGARTEN

## LANGUAGE & LITERACY

### Foundational Reading Skills

- Recognize and understand the concepts of print and books
- Application of alphabetical knowledge
- Identify and apply phonics and word analysis
- Begin to sequence story events for writing
- Increase fluency to improve writing
- Begin to use a simple checklist to improve writing with teacher support

### Introduce Oral Language Skills

- Ability to research and communicate information from a variety of sources
- Introduce basic reading comprehension strategies and complex text skills
- Generate questions
- Sequence events
- Visualize
- Describe settings
- Compare and contrast
- Distinguish between reality and fantasy
- Use visuals to find information
- Make connections across texts that are similar

### Introduce Vocabulary

- Concept words, high frequency words, multiple meaning words, sequence words, and utility words

**Texts/Materials** *UFLI Foundations, Fountas and Pinnell Classroom, and Heggerty*

## WRITING, GRAMMAR, SPELLING

### Writing as a Process

- Observe the teacher model writing
- Generate and share ideas and experiences for a story
- Begin to use a basic writing process to develop writing
- Difference between letter/word
- Word/sentence, spaces between words
- Picture/text relationships

### Writing as a Product

- Respond to reading using a combination of drawing, labeling, and writing
- Write informative pieces through a combination of drawing, dictating, and writing
- Write narrative pieces through a combination of drawing, dictating, and writing
- Write opinion pieces through a combination of drawing, dictating, and writing
- Show and discuss work samples
- Collect favorite work samples into a writing journal
- Share writing with classroom audience

### Mechanics, Spelling, and Handwriting

- Write all letters (capital and lowercase) from memory
- Use developmental spelling, understanding of phonics, and sight words to spell
- Begin to use basic capitalization and punctuation
- Use left-to-right and top-to-bottom directionality and use appropriate spacing between words

**Texts/Materials** *Units of Study*





# KINDERGARTEN

## (CONTINUED)

### MATHEMATICS

- Match and sort objects
- Compare and order numbers

#### Number Sense

- Read and write numbers 0-20
- Count to 100 by ones, fives, and tens
- Recognize corresponding sets
- Skip counting
- Place value to 99

#### Addition and Subtraction to Ten

- Number bonds

#### Geometry

- Circles, rectangles, squares, and triangles
- Identify rectangular solids and spheres

#### Patterns

- Identify and extend patterns according to shape, size, and orientation

- Introduce fact families
- Introduction to time, money, and fractions

#### Length and Size

- Measure height and width
- Estimate height and width
- Compare measurements

#### Weight

- Compare and weigh different objects
- Estimate weight

#### Compare Sets

- Compare sets of equal and different size
- Fewer than/greater than

#### Texts/Materials *Developing Roots (Methodology)*

### SCIENCE

#### Weather and Sky

- Weather prediction and instruments
- The effect of the sun on Earth's weather

#### How Do We Learn?

- The 5 senses
- Using scientific tools
- Standard vs. non-standard measurement

#### Plants and Animals

- Life cycle of a plant
- Animal behaviors and habitats

#### Physical Science

- Properties of matter
- Experimental process

### SOCIAL STUDIES

- Introduction to maps and globes
- Holidays and traditions around the world
- Pilgrims and Native Americans
- Citizenship

- Introduction to patriots and presidents
- South American studies
- MLK Day
- Character education



# KINDERGARTEN

## (CONTINUED)

### PHYSICAL EDUCATION

- Locomotor skills
- Dribbling, throwing, catching, kicking, and striking skills
- Parachutes for cooperation, coordination, and strengthening large muscles
- Follow a series of verbal directions
- Encourage teamwork and leadership through games
- Olympic Club (running) – aerobic fitness
- Stretch and aerobic exercises
- Educate students about healthy lifestyle choices
- Promote lifelong fitness

### ART

- Promote lifelong fitness
- Practice of basic skills in drawing, painting, marker techniques, cutting, and assembly
- Color wheel and basic color theory awareness and practice
- Timeline history lessons with hands-on expression of understanding and knowledge (dinosaurs, cave art, Ancient Egypt, Middle Ages, etc.)
- Exposure to various artists and art styles
- Watercolor/crayon resist, 3-D exploration, printing, tracing, rubbings, patterns, silhouettes, assembly, etc.

### MUSIC

- Creative movement directions
- Planned dance steps
- Read rudimentary rhythm patterns (beat vs. rhythm)
- Tone matching concepts of high and low tones
- Tempo variations
- Pitch exploration
- Song fragments (echo songs, call and response)
- Simple songs
- Arioso (singing improvisation)
- Movement exploration
- Movement for form and expression (finger plays, action songs, circle games, etc.)
- Beat motions (rhymes, chants, with recorded music, on rhythm and tonal instruments)
- Songs tales (stories and drama, audience etiquette)

### SPANISH

- Recognize basic colors
- Count numbers to 39
- Recognize and identify animals
- Rules and customs
- Identify household items
- Identify parts of the face
- Identify parts of the body
- Recognize and identify the days of the week
- Recognize basic clothing

### LIBRARY

- Proper library and book checkout procedures
- Literature appreciation and storytelling
- Skills: Fiction and nonfiction books, parts of a book



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# KINDERGARTEN

## (CONTINUED)

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### **INTEGRATED SCIENCE**

- Practice solving problems using an engineering design process
- Collaborate to build and test designs
- Recognize patterns and practice sequencing
- Use input devices to successfully operate technology
- Communicate about technology using appropriate terminology
- Use multimedia resources to support learning
- Work cooperatively and collaboratively with peers when using technology in the classroom
- Demonstrate positive social and ethical behaviors when using technology
- Recognize numbers, symbols, and keys on a standard keyboard

### **CHESS**

- Chess basics: what it is, who you are, and how to win
- How pieces move and work together
- How to check the king and how to stop a check
- Count pieces
- Strategies and tactics
- Checkmates with variety of pieces
- Consequences of moves and recognizing mistakes
- Good sportsmanship



# FIRST GRADE

## READING

### Foundational Reading Skills

- Understand how print works
- Pronounce sounds clearly
- Blend sounds to read
- Identify sight words
- Use phonics and word knowledge in decoding words
- Read with sufficient fluency to support understanding
- Use metacognitive strategies (make connections, ask questions, infer, visualize, predict, draw conclusions, monitor comprehension) to support understanding of grade-level text

### Reading and Understanding Fiction and Nonfiction Texts

- Ask and answer questions about texts
- Retell main ideas and important details/facts
- Infer the “lesson” in fiction
- Notice different types of texts
- Recognize fiction and some genres
- Follow multiple characters in the same story
- Recognize nonfiction and organizational structures
- Explain the actions of the main character and the reasons for those actions
- Describe characters, setting, problem, solution, and events in logical sequences

### Developing Vocabulary

- Use academic language to talk about genres and texts
- Use context, including pictures, to determine meaning
- Use basic sequence and connective words
- Domain-specific vocabulary

### Texts/Materials

*Fountas and Pinnell Classroom, Heggerty, and UFLI Foundations*

## WRITING, GRAMMAR, SPELLING

### Writing as a Process

- Begin to generate ideas for writing through talking, sharing, and drawing
- Observe the modeling of writing
- Begin to use a basic writing process to develop writing
- Use simple sentences to convey ideas
- Increase fluency to improve writing
- Continue to use graphic organizers, drawings, writing or labels to draft
- Edit pictures and writing to add details
- Use mentor texts while drafting
- Begin to use simple checklist to improve writing with teacher support

### Writing as a Product

- Write about reading for a variety of purposes, including stating opinions, retelling, discussing the setting, or discussing a character
- Write stories that have a clear series of at least two events with a clear beginning, middle, and a sense of closure
- Write informational pieces with supporting information and facts and have a sense of closure
- Write opinion pieces which state an opinion, give reasons, and provides a sense of closure
- Write cohesive, simple paragraphs
- Produce finished writing to share with class and/or for publication
- Show and talk about own writing for class audience
- Collect favorite pieces for the end-of-year portfolio



# FIRST GRADE

## (CONTINUED)

### **Mechanics, Spelling, and Handwriting**

- Use correct ending punctuation
- Apply basic rules of capitalization
- Recognize the functions of a sentence and construct sentences (subject + verb)
- Recognize and use common verb tenses
- Recognize some parts of speech
- Use correct spelling of some high frequency words
- Recognize and apply basic spelling patterns
- Use left-to-right and top-to-bottom directionality and use appropriate spacing between words
- Print legibly

### **Texts/Materials**

*Units of Study*

## **MATHEMATICS**

- Mental math skills

### **Numbers to 100**

- Addition and subtraction with number bonds (2-digit +/- 2-digit) to 100

### **Position and Direction**

- Find ordinal position

### **Comparing and Ordering Numbers**

- Missing numbers in a sequence
- Understand greater than/less than

### **Identifying and Classifying Shapes**

- 2D: circle, triangle, square, rectangle
- 3D: cube, sphere, cylinder, cone, rectangular prism
- Sort and classify shapes

### **Graphs**

- Read and interpret picture graphs
- Gather and construct simple tally charts and bar graphs

## **SCIENCE**

### **Sound and Light**

- Use instruments to produce sound
- Discriminate between different sounds and vibrations
- Use flashlights to create and change shadows
- Work with light to determine transparent, translucent, and opaque

### **Multiplication and Division**

- Multiplication - adding in equal groups (repeated addition)
- Division – sharing equal groups

### **Length**

- Estimate, compare, and measure length

### **Fractions**

- Read and write fractions of a whole (halves, fourths, thirds)

### **Time**

- Read and write times to the hour, half hour, and quarter of an hour

### **Money**

- Recognize and name coins
- Make change
- Compare amounts of money in two or three sets
- Add and subtract in cents and dollars

**Texts/Materials** *Singapore Math - think! Mathematics*

### **Sun, Moon, and Stars**

- Parts of the sun and phases of the moon
- Day and night, seasons on Earth
- Orbits of planetary objects
- Earth's surface and Earth's place in time




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# FIRST GRADE

## (CONTINUED)

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### From Seed to Plant and Animal Heredity

- Watch the life cycle of a plant to determine survival rate
- Use birds to demonstrate animal heredity, behavior, and adaptation

### SOCIAL STUDIES

- Character education
- Current events - Scholastic Magazine

### Rules and Laws (Citizenship)

- School rules, community rules, leaders, government, rights vs. responsibilities

### Maps and Globes

- Map skills, land and water, natural resources, weather, and seasons involving people

### Our Country

- Beginning of our country, flag/pledge, American symbols, holidays, and heroes

### PHYSICAL EDUCATION

- Increase speed and agility while practicing locomotor skills
- Competency in many movement forms and movement patterns
- Dribbling, throwing, catching, kicking, and hitting skills

### ART

- Practice of basic skills in drawing, painting, marker techniques, cutting, and assembly
- Enhancement of visual concepts and creative problem solving
- Paint with expression using tempera and watercolor paints
- Basic art elements introduced: line, pattern, shape, texture, and color

### Fairy-tale science (STEM)

- Use popular stories to develop inquiry and processing skills

### Our Changing World

- People long ago, schools long ago, communities in the past, transportation changes

### Cultures and Celebrations

- First Americans, immigration, culture, celebrations, families around the world

### The Market Place (Goods and Services)

- Goods and services, jobs, buyers and sellers, factories

- Large and small group games
- Encourage teamwork and leadership through games
- Goal setting through Olympic Club (running laps)
- Parachutes for cooperation, coordination, and strengthening large muscles

- Silhouettes, mosaics, splatter painting, watercolor/crayon resist, 3-D exploration, printing, tracing, rubbings, patterns, silhouettes, assembly, etc.
- Art history timeline lessons (Space, Ancient Egypt, Middle Ages, Impressionism)
- Awareness of various artists and art styles
- Creative problem solving




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# FIRST GRADE

## (CONTINUED)

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### MUSIC

- Pitch exploration
- Song fragments (echo songs, call and response)
- Simple songs
- Arioso (singing improvisation)
- Movement exploration
- Movement for form and expression (finger plays, action songs, circle games, etc.)
- Beat motions (rhymes, chants, with recorded music, on rhythm and tonal instruments)
- Song tales (stories and drama, audience and performer etiquette for grade-level performance)

### SPANISH

- Understand and respond to basic greetings
- Recognize basic colors (identify and name) and numbers (count objects in a group)
- Identify family relationships
- School and home
- Identify foods
- Identify and name animals

### LIBRARY

- Proper library and book checkout procedures
- Literature appreciation and storytelling
- Skills: book organization, fiction and nonfiction books, parts of a book, library terminology

### INTEGRATED SCIENCE

- Learn the fundamentals of block-based coding language
- Explore the scientific method by using a design process to solve a problem
- Use a variety of media and technology resources for directed and independent learning activities
- Use multimedia resources to support learning
- Work cooperatively and collaboratively with peers when using technology in the classroom
- Practice responsible use of technology systems and software
- Demonstrate positive social and ethical behaviors when using technology
- Create developmentally appropriate multimedia products with support
- Use technology resources for problem solving, communication, and illustration of thoughts, ideas, and stories
- Recognize numbers, symbols, and keys on a standard keyboard

### CHESS

- Chess basics: what it is, who you are, and how to win
- How pieces move and work together
- How to check the king and how to stop a check
- Count pieces
- Strategies and tactics
- Checkmates with variety of pieces
- Consequences of moves and recognizing mistakes
- Good sportsmanship



# SECOND GRADE

## READING

### Foundational Reading Skills

- Use metacognitive strategies (make connections, ask questions, infer, visualize, predict, draw conclusions, monitor comprehension) to support understanding of grade-level text
- Use phonics and word knowledge in decoding words, including syllabication and word parts
- Read grade-level text fluently and with expression

### Reading and Understanding Fiction and Nonfiction Texts

- Ask and answer questions about a text
- Retell main ideas and important details of a text
- Describe characters and character change in a story
- Describe the elements of fiction: plot, setting, problem, solution, and theme
- Describe similarities and differences in texts
- Notice how nonfiction texts are organized
- Notice narrative structure
- Infer author's purpose
- Think across texts to notice big ideas

### Further Developing Vocabulary

- Use academic language in discussion of texts, literary features, and text features
- Use context clues to determine meaning
- Sequence words
- Notice some figurative language

**Texts/Materials** *Fountas and Pinnell Classroom, and Letterland Phonics*

## WRITING, GRAMMAR, SPELLING

### Writing as a Process

- Use several methods to generate ideas for writing
- Use clear structures to organize ideas for writing
- Revise drafts by rereading work for meaning, narrowing focus, elaboration, and improved word choice
- Edit writing for spelling, mechanics, clarity, and fluency
- Use technology to publish drafts
- Evaluate writing using checklists or rubrics
- Reflect on own writing, noting strengths and areas needing improvement
- Formation of paragraphs
- Development longer pieces with grouped information

### Writing as a Product

- Write about reading, using specific details and examples from text in response
- Produce finished writing samples to share or publish
- Write stories that have a clear series of at least two events with a clear beginning, middle, and sense of closure
- Write informational pieces with supporting information and facts and have a sense of closure
- Write opinion pieces which states an opinion, gives reasons, and provides a sense of closure
- Use common transitions and connectives

### Mechanics, Spelling, and Handwriting

- Use punctuation correctly, including end marks and commas in a series and apostrophes in contractions and possessives
- Capitalize words when needed
- Write simple and compound sentences
- Use understanding of word parts, spelling patterns, and word structure in spelling
- Recognize parts of speech
- Print legibly
- Introduce cursive writing

**Texts/Materials** *Units of Study, Zaner Bloser Handwriting, Not so Wimpy Grammar*





# SECOND GRADE

## (CONTINUED)

### MATHEMATICS

- Problem solving with all operations through the model drawing method
- Mental math skills

#### Numbers to 1,200

- Place value and number sense
- Hundreds, tens, and ones
- Compare and order numbers

#### Addition / Subtraction Using Different Strategies

- Addition and subtraction word problems
- Addition and subtraction using the left to right method
- Addition and subtraction with and without renaming (2 to 4-digit numbers)
- Addition and subtraction solved mentally (2 to 4-digit numbers)

#### Length and Height

- Estimate and measure length and height using customary and metric units of measurement
- Compare length and height in customary and metric units of measurement

#### Multiplication and Division 2's to 10's

- Write multiplication and division equations
- Division with remainders
- Multiplication and division word problems

### SCIENCE

#### Balance and Motion

- Motion of objects
- Balance, counterweight, and stability
- Stable and unstable systems
- Gravity and magnetic forces

#### Insects and Plants

- Insect life cycle
- Plant life cycle
- Pollination

#### Money

- Make change
- Add and subtract money

#### Fractions

- Read and write fractions of a whole
- Show halves, fourths, thirds, and eighths

#### Time

- Telling time before and after the hour
- Time intervals
- Other units of time

#### Tables and Graphs

- Interpret picture graphs
- Interpret table, line, and bar graphs

#### Geometry

- Flat and curved faces (identify common solids)
- Making shapes (compose and decompose compound shapes)
- Identify and compare two- dimensional and three- dimensional shapes

#### Texts/Materials

*Singapore Math - think! Mathematics*

#### Pebbles, Sand, and Silt

- Properties and identification of rocks
- Erosion and how rocks form
- How people use Earth materials to construct objects
- The climate of Earth and how it affects change

#### Length and Capacity

- Linear measurements of length, width, and height
- Capacities of different shapes
- Scientific data from measurement



# SECOND GRADE

## (CONTINUED)

### Changes (Solids, Liquids, and Gases)

- Describe properties of matter
- Reversible change
- Combine substances and record results
- Chemical reactions

### Human Body (mini-unit)

- Body systems

## SOCIAL STUDIES

- Current events

### Communities

- Types of communities, identifying aspects of communities, community roles effect on each other

### Map Skills

- Directions, compass rose, political and physical maps, map keys

### World Geography

- Continents, hemispheres, oceans

### US Geography

- Symbols
- Identify key facts about states

### Physical Geography

- Basic land formations, regions

### Government

- Structure of US government, three branches and their roles, buildings associated with them, responsibilities

### Economy

- Goods vs. services
- Consumers vs. producers
- Natural vs. man-made resources

### Cross Curricular Topics Covered

- Moving to foreign lands, biographies of important people

### Character Education

- Four key values (respect, honesty, responsibility, and kindness), assembly lessons, pledge of allegiance, working as a team, school pledge

## PHYSICAL EDUCATION

- Locomotor skills
- Competency in many movement forms and movement patterns
- Dribbling, throwing, catching, kicking, and hitting skills
- Movement in a variety of directions (changing quickly)

- Parachutes for cooperation, coordination, and strengthening large muscles
- Large and small group games to build sportsmanship and teamwork
- Goal setting through Olympic Club (running laps)

## ART

- Intermediate drawing, painting, paper skills, and creative techniques – practice and advancing skills with thought, expression, movement, and design
- Intermediate expressions of basic art elements using line, pattern, shape, texture, space, and color
- Basic composition and perspective
- Basic/intermediate origami (3-D , folding, and other paper manipulations)

- Intermediate painting, watercolor, resist, pastel skills
- Art history timeline lessons (Ancient Egypt, Greek and Roman Art, Middle Ages, Renaissance, and Impressionism)
- Awareness of various artists and art styles (students draw Mona Lisa)
- International art history and craft or traditional art for country of study



# SECOND GRADE

## (CONTINUED)

### MUSIC

#### Music Literacy Objectives

- Aurally decoding familiar and unfamiliar rhythmic/tonal patterns
- Aurally creating rhythmic/tonal patterns using rhythm or tonal syllables
- Reading: decoding familiar and unfamiliar rhythmic/tonal patterns
- Write familiar and unfamiliar rhythmic/tonal patterns (also known as dictation)
- Create new rhythmic/tonal patterns through written notation
  - Rhythmic: Quarter/Eighth Notes; duple meter
  - Tonal: Do, Re, Mi

#### Performance Objectives

- Singing and vocal technique development
  - Head voice, matching pitch with others
  - Unison singing; melody with vocal/instrumental ostinato
- Movement for Form and Expression
  - Folk Dances (longways and circle sets)
  - Singing games
- Instrumental technique development
  - Name, classify, and play rhythmic instruments
  - Name, classify, and play tonal instruments (i.e. Orff)
  - Play simple arrangements (solid and broken borduns)

#### General Music Concepts

- Beat and rhythm
- Composers across various genres
- Dynamics (piano, mezzo-piano, mezzo-forte, forte)
- Tempo (lento, adagio, allegro)
- Form (AB, ABA, repeat)

### SPANISH

- Understand and respond to basic greetings
- Colors and numbers (identify and count numbers)
- Identify family relationships
- School, home, clothing
- Identify foods
- Human body
- Animals
- Calendar: days, months, seasons and basic weather

### LIBRARY

- Proper library and book checkout procedures
- Literature appreciation and storytelling
- Book organization, fiction & nonfiction books, parts of a book, library terminology
- Dewey Decimal System
- Use of online catalog
- Material selection skills

### INTEGRATED SCIENCE

- Understand the fundamentals of block-based coding
- Learn the history of computer science and its career paths
- Explore the scientific method using a design process to solve a problem
- Recognize patterns and practice sequencing
- Use a variety of media and technology resources for directed and independent learning activities
- Use multimedia resources to support learning
- Work cooperatively with peers using technology in class
- Demonstrate positive social and ethical behaviors
- Create appropriate multimedia products with support
- Use technology resources for problem solving, communication, and illustration of thoughts and ideas
- Recognize numbers, symbols, and keys on a keyboard



# THIRD GRADE

## READING

### Foundational Reading Skills

- Use phonics and word knowledge in decoding words, including syllabication and word parts
- Read grade-level text fluently and with expression

### Reading and Understanding Fiction and Nonfiction Texts

- Ask and answer questions about a text
- Retell main ideas and important details of a text
- Describe characters and character change in a story
- Describe the elements of fiction: plot, setting, problem, solution, and theme

### Further Developing Vocabulary

- Sequence words
- Notice some figurative language

### Texts/Materials

*Fountas and Pinnell Classroom, and Letterland Phonics*

- Use metacognitive strategies (make connections, ask questions, infer, visualize, predict, draw conclusions, monitor comprehension) to support understanding of grade-level text

- Describe similarities and differences in texts
- Notice how nonfiction texts are organized
- Notice narrative structure
- Infer author's purpose
- Think across texts to notice big ideas

- Use academic language in discussion of texts, literary features, and text features
- Use context clues to determine meaning

## WRITING, GRAMMAR, SPELLING

### Writing as a Process

- Use several methods to generate ideas for writing
- Use clear structures to organize ideas for writing
- Revise drafts by rereading work for meaning, narrowing focus, elaboration, and improved word choice
- Edit writing for spelling, mechanics, clarity, and fluency

- Use technology to publish drafts
- Evaluate writing using checklists or rubrics
- Reflect on own writing, noting strengths and areas needing improvement
- Formation of paragraphs
- Development longer pieces with grouped information

### Writing as a Product

- Write about reading, using specific details and examples from text in response
- Produce finished writing samples to share or publish
- Write stories that have a clear series of at least two events with a clear beginning, middle, and sense of closure

- Write informational pieces with supporting information and facts and have a sense of closure
- Write opinion pieces which state an opinion, give reasons, and provides a sense of closure
- Use common transitions and connectives

### Mechanics, Spelling, and Handwriting

- Use punctuation correctly - end marks and commas in a series and apostrophes in contractions and possessives
- Capitalize words when needed
- Write simple and compound sentences

- Use understanding of word parts, spelling patterns, and word structure in spelling
- Recognize parts of speech
- Print legibly
- Introduce cursive writing

### Texts/Materials

*Units of Study, Zaner Bloser Handwriting, Not so Wimpy Grammar*



# THIRD GRADE

## (CONTINUED)

### MATHEMATICS

#### Numbers to 10,000

- Compare and order
- Number patterns
- Round numbers

#### Addition and Subtraction (Right to Left)

- Mental calculation
- Sum and difference (numeric equations and inequalities)
- Estimation
- Add and subtract (tens, hundreds, thousands using mental math)

#### Multiplication and Division (Left to Right)

- Multiply ones, tens, hundreds, and thousands by a one-digit number
- Quotients with remainders
- Divide thousands, hundreds, tens, and ones by a one-digit number
- Multiplication and division facts through 12

#### Multiplying and Dividing by 6, 7, 8, and 9

- Commutative and associative properties
- Estimation multiplication and division problems

#### Data Analysis

- Interpret and create bar graphs, tables, line plots, and tally charts
- Probability (likely, unlikely, certain, impossible)

#### Length

- Meters, centimeters, and kilometers (measure, add and subtract, convert using compound units)
- Yards, feet, and inches (add and subtract, convert using compound units)
- Understanding of miles

#### Weight

- Kilograms and grams (measuring, converting, adding and subtracting)
- Pounds and ounces (measuring, adding and subtracting, converting)

#### Capacity

- Liters and milliliters (weighing, converting, adding and subtracting)
- Gallons, quarts, pints, and cups (measuring, adding and subtracting, converting)

#### Money

- Identify coins
- Adding and subtracting money
- Multiplication and division

#### Fractions

- Compare fraction
- Equivalent fractions and simplest form
- Add and subtract fractions with like denominators
- Fractions of a set
- Fractions and money (fraction of a dollar)

#### Time

- Hours and minutes (elapsed time, converting between hours and minutes)
- Other units of time (converting between years and months, weeks and days)

#### Geometry

- Angles (identify angles and polygons)
- Quadrilaterals and triangles
- Solid figures

#### Perimeter and Volume

- Area and perimeter (measure and compare)
- Volume (building and finding volume)

#### Problem Solving Through Model Drawing

#### Texts/Materials

*Singapore Math – think! Mathematics*



# THIRD GRADE

## (CONTINUED)

### SCIENCE

#### Amazing Air

- Air contains matter
- Uses of air
- Flying, floating, and falling objects

#### Weather and Climate

- Weather instruments
- Observe atmospheric conditions to make predictions
- Climates in different parts of the world
- Wind and its effect on weather

#### Motion and Design

- Design a blueprint
- Design and build vehicles based on characteristic
- Force and magnetism

#### Dinosaurs and Florida Paleontology

- Types of fossils and how fossils are made
- Categories and features of dinosaurs
- Theories of dinosaur extinction
- Earth's place in time
- Examine fossils from Florida and learn about the history of Florida flora and fauna

#### Food Chains and Webs

- The sun as the source of all life
- Animal adaptation and heredity
- Owl pellet dissection
- Animal life cycles
- Biomes

### SOCIAL STUDIES

#### Map Skills

- Directions, compass rose, political and physical maps, map keys

#### Geography

- Continents, hemispheres, equators, prime meridian, relative location countries, latitude, longitude
- Landforms, climate, natural resources

#### Government

- Three branches and their roles, checks and balances

#### Economy

- Supply and demand, profit, manufacturing

#### The American People

- Culture, patriotism, immigration

#### United States

- Regions, identifying states, geography, early history

#### Texts/Materials

*Social Studies Weekly*

### PHYSICAL EDUCATION

- Locomotor skills
- Competency in many movement forms and movement patterns
- Healthy self-concept
- Lifetime fitness goals
- Dribbling, throwing, catching, kicking, and hitting skills
- Parachutes for cooperation, coordination, and strengthening large muscles
- Movement in a variety of directions (change directions quickly)
- Large and small group games to build sportsmanship and teamwork
- Goal setting through Olympic Club (running laps)



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# THIRD GRADE

## (CONTINUED)

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### ART

- Intermediate drawing, painting, paper skills, and creative techniques – practice and advancing skills with thought, expression, movement, and design
- Intermediate expressions using line, pattern, shape, space, texture, and color
- Basic composition and perspective, symmetry, optical illusion, etc.
- Practice of all skills in drawing, painting, watercolor, marker techniques, cutting, and assembly
- Enhancement of visual concepts, creative problem solving, individuality, and confidence
- Expanding awareness of color theory, light, and shadow
- Art History timeline lessons (Impressionism, Pointillism, Expressionism, Fauvism)
- Awareness of various artists and art styles (Students draw Van Gogh's Starry Night)
- International art history and craft or traditional art for country of study

### MUSIC

#### Music Literacy Objectives

- Aurally decoding familiar and unfamiliar rhythmic/tonal patterns
- Aurally creating rhythmic/tonal patterns using rhythm or tonal syllables
- Reading: decoding familiar and unfamiliar rhythmic/tonal patterns
- Write familiar and unfamiliar rhythmic/tonal patterns (also known as dictation)
- Create new rhythmic/tonal patterns through written notation
  - Rhythmic: Quarter, eighth notes, dotted quarter notes; Duple and triple meter
  - Tonal: Do, Re, Mi, So

#### Music Performance Objectives

- Singing and vocal technique development
  - Head voice, matching pitch with others
  - Unison singing; ostinato; rounds/canons; partner songs
- Movement for Form and Expression
  - Folk Dances (longways and circle sets)
  - Singing games
- Instrumental technique development
  - Naming, classifying, and playing rhythmic instruments
  - Naming, classifying, and playing tonal instruments (i.e. Orff)
  - Playing simple arrangements (solid and broken borduns, crossover)
- Third Grade Musical (performer and audience etiquette)
- Tempo (accelerando, ritardando)
- Form (AB, ABA, repeat)

#### General Music Concepts

- Beat and rhythm
- Composers across various genres
- Dynamics (crescendo, diminuendo)

### SPANISH

- Greetings
- Numbers
- Family
- School, home, clothing
- Human body
- Identify food and understand foods unique to Spanish speaking world
- Weather (associate weather with seasons) and calendar (use days and months)
- Transportation and places
- Gender of nouns




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# THIRD GRADE

## (CONTINUED)

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### LIBRARY

- Proper library & book checkout procedures
- Literature appreciation and storytelling
- Skills: book organization, fiction and nonfiction books, parts of a book, library terminology
- Dewey Decimal System
- Use of online catalog
- Library scavenger hunts
- Material selection skills

### INTEGRATED SCIENCE

- Develop a deeper understanding of the fundamentals of block-based coding language
- Build knowledge of the history of computer science and its related career paths
- Explore the scientific method by using a design process to solve a problem
- Recognize patterns and practice sequencing
- Keyboard with a speed of 30 WPM with an accuracy of 85%
- Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide
- Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use
- Use general purpose productivity tools and peripherals to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum
- Use telecommunications appropriately to access remote information, communicate with others in support of direct and independent learning, and pursue personal interests
- Use technology to participate in collaborative problem-solving activities for the purpose of developing solutions or products for audiences inside and outside the classroom
- Use technology resources for problem solving, self-directed learning, and extended learning activities
- Determine when technology is useful and select the appropriate tool(s) and technology resources to address a variety of tasks and problems
- Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources





# FOURTH GRADE

## READING

### Foundational Reading Skills

- Use metacognitive strategies (make connections, visualize, predict, draw conclusions, monitor comprehension) to support understanding of grade-level text
- Read grade-level text fluently and with expression
- Use close reading and annotation to deepen understanding of a text

### Reading Fiction and Nonfiction Texts

- Understand text structure of nonfiction texts
- Identify types of fiction
- Understand and describe elements of fiction: characters, plot elements, theme, setting, and conflict
- Summarize a fiction or nonfiction text
- Identify main idea and key details in nonfiction
- Determine how point of view can impact a fiction or nonfiction text
- Use evidence from the text to support an idea

### Poetry

- Identify and write different types of poetry
- Understand how to read poetry
- Identify and use figurative language in poetry

### Vocabulary and Language Development

- Identify figurative language
- Use word roots to help determine meaning
- Use context clues to determine meaning of unknown words

**Texts/Materials** *Wordly Wise vocabulary program*

**Novels** *The Sign of the Beaver, Number the Stars, Inside Out and Back Again, and various books for book club*

## WRITING, GRAMMAR, SPELLING

### Writing as a Process

- Use several methods to generate ideas for writing
- Use clear structures to organize ideas for writing
- Draft writing with audience, purpose, and form in mind
- Edit writing for spelling, mechanics, clarity, and fluency
- Revise drafts by rereading work for meaning, narrowing focus, elaboration, and improved word choice
- Use technology to publish drafts
- Evaluate writing using checklists or rubrics

### Writing as a Product

- Write narrative pieces, such as personal narrative, that follow a clear series of events, incorporate thoughts and feelings, contain dialogue, and have a clear ending that connects back to the beginning or middle of the story
- Write opinion pieces that introduce a clear claim, a body that supports the claim with reasons and evidence, elaboration that is convincing, tone that is convincing, and an ending that restates the opinion
- Write informational pieces that introduce a clear subject, contain grouped information about that topic, teach readers about that topic using a variety of organizational structures, and close with an ending that contains a final insight
- Vary sentence structure and consider word choice
- Use clear transitions
- Engage the reader from start to finish with an interesting lead, a logical sequence, and a satisfying conclusion



# FOURTH GRADE

## (CONTINUED)

### Mechanics, Spelling, and Handwriting

- Use mentor text strategies for grammar, sentence structure, and writing
- Use increasingly complex sentence structure (simple, compound, and complex) sentences to express ideas
- Use correct subject/verb agreement, pronouns, and verb tense in writing
- Use punctuation correctly, including end marks, commas, and quotation marks in dialogue
- Write legibly in cursive
- Use capital letters correctly in sentences, for proper nouns, and in titles
- Spell grade-appropriate words correctly with particular attention to frequently used words, contractions, and easily confused words
- Use knowledge of base words, word parts, and spelling patterns to expand spelling competency in writing
- Use a variety of strategies to check written work

**Texts/Materials** *Up the Ladder & 4th grade Units of Study*

## MATHEMATICS

### Whole Numbers (Millions Place)

- Estimation
- Factors and multiples
- Order of operations
- Rounding

### Operations of Whole Numbers

- Addition and subtraction
- Multiplication (by a 2-digit number)
- Division

### Fractions

- Equivalent fractions
- Add and subtract fractions and mixed numbers (with like and unlike denominators)
- Mixed numbers and improper fractions
- Relate fractions to division

### Geometry

- Estimate and measure angles
- Parallel and perpendicular lines
- Identify quadrilaterals and triangles (find side lengths)
- Circles (diameter and radius)
- Identify solid figures and nets

### Area and Perimeter

- Understand and use formulas
- Composite figures (area and perimeter)

**Texts/Materials** *Singapore Math – think! Mathematics*

### Problem Solving through Model Drawing

### Decimals (Thousandths)

- Compare and order
- Express fraction as a decimal
- Express decimal as a fraction
- Round decimals
- Add and subtract decimals
- Multiplication (2 decimal places)
- Division (hundredths)

### Congruent and Symmetric Figures

- Identify figures
- Corresponding vertices, sides, and angles
- Tiling patterns (tessellations)
- Line and rotational symmetry

### Coordinate Graphs and Changes in Quantity

- Identify and graph ordered pairs
- Changes in quantities (graphing)

### Data Analysis and Probability

- Organize and analyze data (tally charts and line plots)
- Identify mode, median, mean, and range for a set of data
- Order of outcomes
- Bar graphs and line graphs

### Measures and Volume

- Add and subtract measures
- Multiply and divide measures
- Volume of rectangular prisms



# FOURTH GRADE

## (CONTINUED)

### SCIENCE

#### Forces and Energy (FOSS)

- Energy and circuits
- Energy transfer
- The force of magnetism
- Electromagnets
- Waves

#### Electrical House Project

### SOCIAL STUDIES

#### Florida Geography

- Elevation: lowlands and highlands
- Rivers and Atlantic Ocean
- Natural resources
- Crops and growing season
- Dangerous weather

#### Florida History

- Pioneer days
- Slavery and secession
- Florida and the Civil War (battles and reconstruction)
- Spanish-American War
- Florida and WWII
- Civil rights movement in Florida
- Florida in the "Space Age"

#### Florida Economy

- Economy basics
- Workers in Florida
- Consumer roles
- Industries in Florida
- National and global economy

### PHYSICAL EDUCATION

- Cooperative group activities
- Promote leadership, teamwork, and problem solving
- Healthy self-concept
- Lifetime fitness goals
- Teamwork games including volleyball, football, basketball, Gatorball, soccer, hockey, and softball
- Track and Field – motor skills and movement patterns

#### Soils, Rocks, and Landforms (FOSS)

- Soils and weathering
- Landforms
- Map Earth's surface
- Natural resources

#### Organisms: Structure and Function (Project Lead the Way)

##### Texts/Materials

*FOSS / Project Lead the Way*

#### Florida Government

- Local government
- Florida Constitution
- Public services
- Rights and responsibilities

#### Florida Culture

- Hispanic heritage
- Famous Floridians

#### Florida Natives and the Age of Exploration

- 1400's
- Spanish arrival and settlement
- Competition for Florida

#### Map Skills

- Location and direction
- Scales
- Map symbols
- Global grid (latitude and longitude)
- Special purpose maps

##### Texts/Materials

*Florida Studies Weekly*

- Individual sports including tennis, cup stacking, juggling, and bowling
- Sportsmanship
- Dance for coordination, rhythm, and flexibility
- Eagle Fitness Testing (setting fitness goals)
- Goal setting through Olympic Club (running laps)



# FOURTH GRADE

## (CONTINUED)

### ART

- Intermediate/advanced drawing, painting, pastels, paper skills, and creative techniques – practice and advancing skills with thought, expression, movement, and design
- Expansion on design understanding, perspective, rhythm and repetition, light and shadow, color theory, and calligraphy using a wide variety of media
- Art history timeline observation and discussion (Regionalist Movement of the Midwest and the use of art for political expression and advertising tools)
- Awareness of various artists and art styles (Students draw Grant Wood's American Gothic)
- International art history and craft or traditional art for country of study
- Modern art introduction, basic measuring, outside shadow art, paper mache', etc.
- Creating design or template that evolves into new form of art

### MUSIC

#### Music Literacy Objectives

- Aurally decode familiar and unfamiliar rhythmic/tonal patterns
- Aurally create rhythmic/tonal patterns using rhythm or tonal syllables
- Reading: decode familiar and unfamiliar rhythmic/tonal patterns
- Write familiar and unfamiliar rhythmic/tonal patterns (also known as dictation)
- Create new rhythmic/tonal patterns through written notation
  - Rhythmic: Quarter, eighth notes, dotted quarter notes, rests, half notes; Duple and triple meter
  - Tonal: Do, Re, Mi, So, La

#### Music Performance Objectives

- Singing and vocal technique development
  - Head voice, matching pitch with others
  - Unison singing; ostinato; rounds/canons; partner songs
- Movement for Form and Expression
  - Folk Dances (longways and circle sets, scattered couples, square sets)
  - Singing games
- Instrumental technique development
  - Name, classify, and play rhythmic instruments
  - Name, classify, and play tonal instruments (i.e. Orff recorder)
  - Play simple arrangements
- Fourth Grade Musical (performer and audience etiquette)

#### General Music Concepts

- Beat and rhythm
- Composers across various genres
- Tempo
- Form
- Dynamics

### SPANISH

- Greetings
- Numbers
- Family
- School and home
- Food
- Weather (identify and recognize weather terms and seasons) and calendar (use days and months)
- Transportation and places
- Adjectives (appropriately use descriptive terms)




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# FOURTH GRADE

## (CONTINUED)

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### LIBRARY

- Proper library & independent book checkout procedures
- Use of online catalog
- Research and citation
- Material selection skills

### INTEGRATED SCIENCE

- Build knowledge of the history of computer science and its related career paths
- Explore the scientific method by using a design process to solve a problem
- Create programs using block-based coding language, including programs with sequences, events, loops, and conditionals
- Discuss the differences between computer hardware, software, and users and how this system works together to process input and produce output
- Explore the analogy of the brain as a computer, discovering how signals pass from cell to cell to allow us to receive stimuli from the outside world, get this information to the brain for processing, and then send out a signal to generate a response
- Keyboard with a speed of 30 WPM with an accuracy of 85%
- Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide
- Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use
- Use general purpose productivity tools and peripherals to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum
- Use technology tools for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom
- Use telecommunications appropriately to access remote information, communicate with others in support of direct and independent learning, and pursue personal interests
- Use technology resources for problem solving, self-directed learning, and extended learning activities
- Determine when technology is useful and select the appropriate tool(s) and technology resources to address a variety of tasks and problems
- Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources



# FIFTH GRADE

## READING

### Foundational Reading Skills

- Further develop specific skills to support understanding: follow directions, using context clues, main idea, drawing conclusions, and making inferences
- Use close reading and annotation to deepen understanding of a text

### Reading and Understanding Fiction and Nonfiction Texts

- Nonfiction text features
- Components of fiction: characters, plot elements, theme, setting, conflict, and mood
- Explore different genres, such as historical fiction, mystery, and biography/autobiography
- Summarize a fiction or nonfiction text
- Identify main idea and key details in nonfiction
- Compare and contrast point of view
- Compare and contrast themes or topics across texts
- Use evidence from the text to support an idea or theory

### Reading and Understanding the Components of Poetry

- Different poetry forms
- Poetry themes
- Identify and use different types of figurative language

### Building Vocabulary Skills Through Direct Vocabulary Instruction

- Explicit instruction using context clues, definitions, affixes, and associations
- Targeted words from novel studies
- Learn and use Greek and Latin roots to increase vocabulary
- Figurative language

**Texts/Materials** *Wordly Wise vocabulary program*

**Novels** *Mrs. Frisby and the Rats of Nimh, Where the Red Fern Grows*

## WRITING, GRAMMAR, SPELLING

### Writing as a Process

- Use several methods to generate ideas for writing
- Use clear structures, such as outlines, to organize ideas for writing
- Gather, select, and organize information appropriate to a topic, task, and audience
- Draft writing with audience, purpose, and form in mind
- Revise drafts by rereading work for meaning, narrowing focus, elaboration, and improved word choice
- Edit writing for spelling, mechanics, clarity, and fluency
- Use technology to publish drafts
- Evaluate writing, both your own and the work of others, using checklists or rubrics
- Use a variety of reference materials to revise work
- Reflection writing, noting strengths and setting goals for improvement



# FIFTH GRADE

## (CONTINUED)

### Writing as a Product

- Expand knowledge of characteristics, structures, and tone of selected genres
- Write a range of grade-appropriate pieces across curricula for a variety of audiences (e.g., persuasive, personal, descriptive, or issue-based)
- Organize text-based responses that develop insight into literature using evidence from the text and elaboration
- Write well-developed narratives that include a lead, tell the story of an important moment, and end that connects to the main part of the story
- Use narrative techniques like dialogue, inclusion of thoughts and feelings, and detailed description
- Use a variety of strategies to organize expository writing, including sequence, chronology, cause/effect, problem/solution, and order of importance
- Write informational pieces that contain an introduction which states the topic and forecasts the subtopics, sections set up by subtopic, and a conclusion restating the main points. Include different aspects of the subject and provide examples, elaboration.
- Write opinion pieces that introduce a thesis, paragraphs that support the thesis with reasons and elaboration, and parallel supports with facts, examples, quotations, micro-stories, and information that work together to support the thesis
- Use relevant text features in writing
- Demonstrate the development of a personal style and voice
- Develop a collection of writings (e.g., journal, writing folder)

### Mechanics, Spelling, and Handwriting

- Use standard conventions in writing
- Use a variety of sentence types, such as simple, compound and complex, in writing
- Use correct capitalization and punctuation, including commas and colons, throughout writing
- Punctuate dialogue correctly
- Use knowledge of roots, prefixes, suffixes, and spelling patterns to spell words correctly in writing
- Demonstrate understanding of reasons for paragraphing in narrative and expository writing.
- Use a variety of strategies to check written work
- Write legibly in manuscript or cursive
- Use mentor sentences to teach grammar and mechanics

## MATHEMATICS

### Whole Numbers (Billions Place)

- Estimation
- Factors and multiples
- Prime factorization
- Multiply and divide by tens, hundreds, or thousands

### More Calculations with Whole Numbers

- Calculations with parentheses
- Mental math calculation
- Multiplication and division by a 2-digit whole number

### Fractions

- Compare fractions
- Addition/subtraction of unlike fractions, mixed numbers
- Fractions of a set

### Multiply and Divide Fractions

- Product of fractions
- Divide a fraction by a whole number and fraction

### Perimeter, Area, and Surface Area

- Area and perimeter for rectangles and squares, triangles, parallelograms
- Surface area

### Ratio

- Find ratios
- Equivalent ratios
- Combine three quantities

### Average and Rate



# FIFTH GRADE

## (CONTINUED)

### Decimals (Thousandths)

- Approximation
- Add and subtract decimals
- Multiply and divide decimals by a 1-digit whole number
- Multiplication and division by tens, hundreds, or thousands
- Multiplication and division by a 2-digit whole number
- Multiplication and division by a decimal

### Measures and Volume

- Conversion of measures
- Volume of rectangular prisms

### Percentage

- Write fractions as percentages
- Percentage of a quantity

**Texts/Materials:** *Singapore Math - think! Mathematics*

### Angles

- Measure and find unknown angles
- Sum of angles of a triangle
- Isosceles and equilateral triangles
- Draw triangles and parallelograms
- Sum of angles of a quadrilateral
- Parallelograms, rhombuses, and trapezoids

### Data Analysis

- Mean, median, and mode
- Histograms
- Line graphs and pie charts

### Algebra

- Algebraic expressions
- Integers
- Coordinate graphs

### Problem Solving through Model Drawing

## SCIENCE

### Infection Detection

- Explore transmission of infection, agents of disease, and mechanism the body uses to stay healthy.
- Uses a simulation to compare communicable and non-communicable diseases

### Infection: Modeling and Simulation

- Investigate models and simulations and discover powerful ideas about computing
- Students program their own models and collect data by running simulations with different parameters

### Matter: Properties and Reactions

- Learn about the three states of matter
- Design a test that demonstrates that an item has the required mechanical properties

**Texts/Materials** *Project Lead the Way*

### Ecosystems

- Learn about Earth's ecosystems and how energy flows from the sun to plants and from plants to animals
- Create a model to describe photosynthesis
- Use the design process to develop an action plan to protect an ecosystem that has become unbalanced due to human activity

### Patterns in the Universe

- Students develop an understanding that stars are balls of hot gas
- Students learn about predictable patterns on Earth in relation to its place in the solar system

### Earth's Water and Interconnected Systems

- Students learn the Earth's systems: the atmosphere, hydrosphere, geosphere, and biosphere
- Students examine how these systems interact





# FIFTH GRADE

## (CONTINUED)

### SOCIAL STUDIES

#### American History

- Early English settlements
- Colonization (relationships and tensions)
- Events leading up to the Declaration of Independence
- The American Revolution
- The Constitution and Bill of Rights
- Westward Expansion
- Causes of the Civil War

#### Geography and Map Skills

- Find directions
- Read a map
- Scale distance
- Longitude and latitude
- Political maps
- Read a globe
- Time zones

### PHYSICAL EDUCATION

- Cooperative group activities
- Promote leadership, teamwork, and problem solving
- Teamwork games including volleyball, football, basketball, Gatorball, soccer, hockey, and softball
- Individual sports including tennis, cup stacking, juggling, and bowling
- Sportsmanship
- Dance for coordination, rhythm, and flexibility
- Track and field – motor skills and movement patterns
- Goal setting through Olympic Club (running laps)
- Eagle Fitness testing (setting fitness goals)
- Educate students about healthy lifestyle choices
- Promote lifelong fitness

### ART

- Intermediate/advanced drawing, painting, pastels and paper skills, and creative techniques – practice and advancing skills with thought, expression, movement, and design
- Expansion on design understanding, perspective, rhythm and repetition, light and shadow, color theory, and calligraphy using a wide variety of media
- Expression, problem solving, individuality, and all art skills practiced using a wide variety of media
- Op Art and Illusion-students design an interactive, 3-D, expression inspired by Israeli artist, Y. Agam
- Art History observation and discussion emphasis on Modern Art and artists (students choose a famous artwork to draw)
- Awareness of various artists and art styles
- International art history and craft or traditional art for country of study
- Tessellations (MC Escher Mathematical Art)-students create their own imaginative designs

### MUSIC

#### Music Literacy Objectives

- Aurally decode familiar and unfamiliar rhythmic/tonal patterns
- Aurally create rhythmic/tonal patterns using rhythm or tonal syllables
- Reading: decode familiar and unfamiliar rhythmic/tonal patterns
- Write familiar and unfamiliar rhythmic/tonal patterns (also known as dictation)
- Create new rhythmic/tonal patterns through written notation
  - Rhythmic: Quarter, eighth notes, dotted quarter notes, rests, half notes; Duple and triple meter
  - Tonal: Do, Re, Mi, So, La



# FIFTH GRADE

## (CONTINUED)

### Music Performance Objectives

- Singing and vocal technique development
  - Head voice, matching pitch with others
  - Unison singing; ostinato; rounds/canons; partner songs
  - Intonation– sharp, flat, in-tune; define; identify and fix intonation problems
  - Sight-singing step-wise melodies up to an octave
- Fifth Grade Musical (performer and audience etiquette)
- Movement for form and expression
  - Folk Dances (longways and circle sets, scattered couples, square sets, Sicilian, contradance)
  - Singing games
- Instrumental technique development
  - Name, classify, and play rhythmic instruments
  - Name, classify, and play tonal instruments (i.e. Orff or recorder)
  - Playing arrangements

### General Music Concepts

- Beat and rhythm
- Composers across various genres
- Dynamics
- Tempo
- Form

### SPANISH

- Dynamics
- Greetings (greet and respond appropriately)
- Numbers
- Family
- School and home
- Food
- Weather and calendar (identify and recognize weather terms and seasons, timing of seasons, connect months to seasons)
- Transportation and places
- Adjectives
- Basic verbs

### LIBRARY

- Proper library procedures & book checkout procedures
- Literature appreciation and storytelling
- Dewey Decimal System
- Use of online catalog
- Library scavenger hunts
- Research and citation
- Material selection skills

### INTEGRATED SCIENCE

- Keyboard with a speed of 30 WPM with an accuracy of 85%
- Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide
- Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use
- Use general purpose productivity tools and peripherals to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum
- Use technology tools for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom
- Build knowledge of the history of computer science and its related career paths
- Research the history of robotics and apply knowledge through the use of VEX IQ equipment



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# FIFTH GRADE

## (CONTINUED)

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- Explore the scientific method by using a design process to solve a problem
- Create programs using block-based coding language, including programs with sequences, events, loops, and conditionals
- Discuss the differences between computer hardware, software, and users and how this system works together to process input and produce output
- Identify the practical application of autonomous robots in a variety of situations, such as natural disasters
- Work with a group to apply knowledge of mechanisms, robotics, and programming to design, build, test, and refine a mobile robot that meets a set of design constraints