

SECOND GRADE CURRICULUM

READING/ LANGUAGE ARTS

Word Level Work

Phonological Awareness, Phonics and Spelling

- Identify, spell and read long vowel diagraphs in simple word forms
- Read and spell words containing different spelling of long vowel phonemes
- Spell pattern of the vowel phonemes oo, ar, oy, ow, or, air, er
- Read and spell words containing the diagraph wh, ph, ch
- Split familiar compound words into their component parts

Word Recognition, Graphic Knowledge and Spelling

- Read on sight and spell words from Houghton Mifflin Spelling and vocabulary
- Spell words with common prefixes, e.g. un, dis, to indicate the negative
- Spell words with common suffixes, e.g. ful, ly
- Understand and use the terms 'vowel' and 'consonant'

Vocabulary Extension

- Use antonyms: collect, discuss differences or meaning and their spelling
- Use synonyms and other alternative words/phrases that express same or similar meanings

Sentence Level Work

Grammatical Awareness

- Use awareness of grammar to decipher new or unfamiliar words
- Read aloud with intonation and expression
- Re-read own writing to check for grammatical sense and accuracy
- Match verbs to nouns/pronouns correctly; use simple gender forms
- Use verb tenses with increasing accuracy in speaking and writing

Sentence Construction and Punctuation

- Use commas to separate items in a list
- Write in clear sentences using capital letters and periods accurately
- Turn statements into questions and add question marks

Text Level Work

FICTION AND POETRY

Reading Comprehension

- Reinforce and apply word level skills in shared and guided reading
- Understand time and sequential relationships in stories
- Identify and discuss reasons for events in stories, linked to a plot
- Discuss story settings and consider how settings influence events and behavior



READING/ LANGUAGE ARTS

- Identify and describe characters
- Prepare and re-tell stories individually and through role-play in a group
- Read, respond imaginatively, recommend and collect examples of humorous stories, extracts and poems
- Identify and discuss aspects of patterns of rhyme, rhythm, alliterative patterns and other features of sound in different poems
- Identify and discuss favorite poems and poets, using appropriate terms and referring to the language of the poems

Writing Composition

- Use story structure to write about own experience in same/similar form
- Use language of time to structure a sequence of events
- Use poems or parts of poems as models for own writing
- Compose own poetic sentences
- Write character profiles using key words and phrases that are in the text

NONFICTION

Reading Comprehension

- Recognize that non-fiction books on similar themes can give different information and present similar information in different ways
- Identify simple questions and use text to find answers; locate parts of text that give particular information including labeled diagrams and charts
- Read simple written instructions
- Understand the distinction between fact and fiction
- Use a contents page and index to find way about text
- Use dictionaries and glossaries to locate words by using initial letter
- Read flow charts and cyclical diagrams that explain a process

Writing Composition

- Write simple recounts linked to topics of interest/study or to personal experience, using language of texts read as models for own writing
- Make group/class books, e.g. 'Our Day at School', 'Our trip to...'
- Write simple instructions
- Use diagrams as part of instructions
- Use the language and features of non-fiction texts, e.g. labeled diagrams, captions for picture, to make class books, e.g. 'What we need to know about...'
- Make class dictionaries and glossaries of special interest words, giving explanations and definitions

SECOND GRADE CURRICULUM



MATHEMATICS

Number Sense

- Use appropriate math vocabulary
- Estimate to solve problems
- Understand our numeration system by relating, counting, and grouping
- Read, write and identify place value
- Count, compare and order whole numbers and fractions
- Use mental math
- Use multiple strategies to solve problems
- Write and solve a story problem involving operations
- Recognize patterns and relationship between decimal numbers and money
- Explore discrete math concepts such as the cumulative property
- Explore division and single-digit multiplication
- Identify and compare fractional parts
- Round to solve problems
- Explore discrete math by determining and manipulating combinations and arrangements of objects
- Explore and model the basic concepts of fractions, including equivalent fractions and operations

Algebraic Thinking

- Identify and extend geometric and number patterns
- Know fact families
- Write an equation or rule that represents a numerical geometric relationship
- Use concrete materials and charts to explore mathematical relationships and language

Geometry and Measurement

- Determine elapsed time and compute with time
- Tell time to the nearest minute
- Use a calendar to solve problems
- Know the value of coins and compute with money
- Compute and compare measurements
- Use drawings to develop spatial sense
- Explore the concept of linear and distance measurement
- Find, explain and compare area and perimeter and multiplication and area
- Use customary and metric units to measure, order and compare capacity
- Select and use appropriate measurement units to report measurement data
- Identify properties of 2- and 3-dimensional shapes
- Describe and draw lines of symmetry

MATHEMATICS- CONTINUED

Data Analysis: Statistics and Probability

- Read and use data to predict patterns of outcome
- Conduct a survey
- Connect data to mathematical representations and operations
- Use maps to explore networks and to solve problems
- Make a plan to collect, record and interpret data
- Gather, sort, display and interpret data in charts, tables, diagrams and graphs
- Use tally marks to collect, organize and describe data
- Explore the possible outcomes of an experiment

SCIENCE

Scientific methodology

- Year-long Inquiry/Science Journal
- Scientific inquiry as an approach to answering questions & investigating phenomena.
- Steps of the scientific method
- Scientific vocabulary
- Physical properties of objects
- Occupations in science & engineering related to IB units

Living Things

- Staying healthy – nutrition, sleep, exercise,
- Body systems that prevent disease; vaccine preventable diseases
- Bones & muscles
- Life cycles (e.g. tadpole)

Materials & Matter

- Forms of matter

Earth & Space

- Composition of the earth,
- Changes in the earth's surface: plate tectonics, volcanoes, earthquakes, erosion
- Geologic history of the earth and fossils
- Rocks, minerals, soil and their origins & properties
- Analyze maps that give information about landforms/natural world
- Water distribution and uses; water cycle

SECOND GRADE CURRICULUM



SOCIAL STUDIES

Artist Biography and/or Charity Report

Community & Government

Charitable organizations

Rights & responsibilities at home, in school and as citizens

Economics

Personal Choices: trade-offs and “opportunity costs”

Charitable giving and fundraising

US History

Native Americans in North America, including Minnesota native tribes before & after European contact

World History

Societies of Mesoamerica and North America before 1500 (e.g. Maya, Aztec, Anasazi, etc.)

Art & Culture of world civilizations

Geography

Types and uses of maps and other tools used to study geography (e.g. photos, satellite images)

Map making

Map inquiry: Asking and answering questions with maps

Geography & map vocabulary: legends, directions, latitude, longitude, time zones, hemispheres, landforms, water features

Geography of geologic features: volcanoes, faults, tectonic plates, etc.

Effects of geography on settlement, borders, and land use

Focus on geographic locations and place features of North America along with features of countries discussed during this year

Timelines: how maps change over time

Geography

- Introduction to maps, globes, continents & bodies of water

- Human and physical characteristics places (e.g. structures, cities, etc.)

- Use maps to show where food is produced in US

- Personal address/location in context of safety

VISUAL ARTS

- Create art projects that are closely connected to the Units of Inquiry
- Create and write stories to accompany their art
- Recognize and use overlapping shapes to show depth
- Interact in groups to encourage multiple perspectives and peer learning
- Create projects connected to the art history and culture
- Study and create works in the style of famous artists