

CENTER POINT-URBANA ELEMENTARY

Second Grade Core Curriculum Guide

CONTENTS:

- Reading and Language Arts
- Mathematics
- Science
- Social Studies
- Library Media
- Physical Education
- Health



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READING *EXPECTATIONS*

SECOND GRADE READING – STUDENTS WILL . . .

WORD ATTACK SKILLS

1. Use sentence structure and word context to predict meaning (Syntax)
2. Apply sounds/symbol relationships to decode words (phonics), for example: diagraphs, vowels, diphthongs, and beginning, medial, and ending consonant clusters
3. Correctly identify regular plurals, for example: s, es, and ies.
4. Know the meaning of simple suffixes, for example: ed, ing, and ly.
5. Use word attack skills to read new and unfamiliar words. (Graphophonics)

VOCABULARY

6. Read sight words
7. Identify simple homophones
8. Increase reading vocabulary

ORAL AND SILENT READING

9. Read aloud with appropriate fluency, accuracy, and expression
10. Read grade level material

COMPREHENSION SKILLS

11. Use context to construct meaning (Semantics)
12. Reread and self-correct
13. Talk about, draw, or write about what is read
14. Sequence a story
15. Restate facts and details
16. Locate information to answer questions
17. Distinguish between fact and fiction
18. Apply spelling patterns to read words
19. Comprehend grade level material that he or she reads aloud
20. Draw conclusions and confirm predictions

INFORMATIONAL TEXTS

21. Alphabetize words to the third letter

LITERARY TEXTS

22. Identify the problem, solution, character, and setting in a story



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WRITING CURRICULUM

SECOND GRADE WRITING – STUDENTS WILL . . .

HABITS AND PROCESSES

1. Write journal entries weekly
2. Assess their own work with rubric
3. Plan for writing
4. Share writing

WRITING PURPOSES AND GENRES

Narrative Writing

1. Write in first and third person

Report or Informational Writing

2. Communicate big ideas, supported by facts, details, and information
3. Use diagrams and illustrations as appropriate to the text

Personal Writing

4. Generate their own topics and write a personal story with sequence of events
5. Write in the first person

Functional Writing

Produce and Respond to Literature

6. Write stories and poems

LANGUAGE USE AND CONVENTIONS – Students are expected to . . .

Style and Syntax

1. Write complete sentences

Vocabulary and Word Choice

2. Use words from their speaking vocabulary in their writing, including words they have learned from reading and class discussion

Spelling

7. Produce writing in which most high-frequency words are spelled correctly
8. Correctly spell most inflectional endings, including plurals and verb tenses
9. Use correct spelling patterns and rules most of the time

Punctuation, Capitalization, and Other Conventions

10. Use capital letters at the beginnings of sentences, pronoun I, and proper nouns
11. Use punctuation marks including periods, question marks and exclamation marks



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HANDWRITING CURRICULUM

SECOND GRADE CURRICULUM -STUDENTS WILL ...

1. Transition from HWT paper to other styles of paper when:
 - they make demonstrate understanding of the difference between capital letters and lowercase letters
 - forms letters correctly
 - comfortably “bumps the lines”
2. Use good sitting posture
3. Position the paper correctly
4. Hold the pencil correctly
5. Write vertical lines
6. Write horizontal line
7. Writes circle lines
8. Writes slant lines
9. Prints numerals 1-10 correctly and fluently
10. Writes capital letters and lower case letters correctly and fluently
11. Understands how to evaluate
 - the shape of their letters
 - the size of their letters
 - the spacing of their letters and words
12. Use slant appropriately
13. Regularly checks written work for legibility

Materials: *Handwriting Without Tears*



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MATHEMATICS EXPECTATIONS AND CURRICULUM

SECOND GRADE MATH CURRICULUM – STUDENTS WILL . . .

STANDARD 1: NUMBERS AND OPERATIONS

The student understands and applies properties of the concepts of numbers and operation.

BENCHMARKS:

- 2.1. Understand numbers, ways of representing numbers, relationships among numbers and number systems

EXPECTATIONS:

- 2.1.1. Read, write and understand numbers through 999
 - 2.1.2. Compare and order numerals up to 999
 - 2.1.3. Identify place value up to 100's
 - 2.1.4. Identify even and odd numbers
 - 2.2. Understand meanings of operations and how they relate to one another
- EXPECTATIONS:
- 2.2.1. Perform basic facts in addition and subtraction using whole numbers 1-9
- 2.3. Compute fluently and make reasonable estimates
 - 2.3.1. Use families of facts up to 18 for example, 9+9, 4+6, and 0+4
 - 2.3.2. Do double-digit addition with and without regrouping
 - 2.3.3. Subtract 2 digit numbers with and without regrouping

STANDARD 2: MEASUREMENT

The student understands and applies properties of the concepts of measurement.

BENCHMARKS:

- 2.4. Understand measurable attributes of objects and the units, systems, and processes of measurement

EXPECTATIONS:

- 2.4.1. Measure and compare lengths to the nearest inch
- 2.4.2. Measure and compare lengths to the nearest centimeter
- 2.4.3. Identify the names and value of pennies, nickels, dimes, and quarters
- 2.5. Apply appropriate technique, tools, and measurements

EXPECTATIONS:

- 2.5.1. Tell what hour, half-hour, quarter using an analog clock

STANDARD 3: GEOMETRY

The student understands and applies properties of the concepts of geometry.

BENCHMARKS:

- 2.6. Analyze characteristics and properties of two-and three-dimensional geometric shapes and develop reasoning and logic using geometric relationships



EXPECTATIONS:

- 2.6.1. Know squares, rectangles, and triangles by sides and angles
- 2.7. Specify locations and describe spatial relationships using coordinate geometry and other representational systems
- 2.8. Apply transformations and use symmetry to analyze mathematical situations

EXPECTATIONS:

- 2.8.1. Identify line of symmetry
- 2.8.2. Geoboards
- 2.9. Use visualization, spatial reasoning, and geometric modeling to solve problems

STANDARD 4: ALGEBRA

The student understands and applies properties of the concepts of algebra.

BENCHMARKS:

- 2.10. Understand patterns, relations, functions, and variables

EXPECTATIONS:

- 2.10.1. Skip count by 2's up to 50
- 2.10.2. Skip count by other sets
- 2.11. Represent and analyze mathematical situations, structures, and change using algebraic symbols
- 2.12. Use mathematical models to represent and understand quantitative relationships

EXPECTATIONS:

- 2.12.1. Why procedures work

STANDARD 5: DATA ANALYSIS AND PROBABILITY:

The student understands and applies properties of the concepts of data analysis and probability.

BENCHMARKS:

- 2.13. Collect, organize, and display data

EXPECTATIONS:

- 2.13.1. Read bar graphs
- 2.13.2. Read pictographs with key more than one
- 2.13.3. Make pictographs and bar graphs
- 2.14. Select and use appropriate statistical methods to analyze, evaluate, and make predictions with data
- 2.15. Understand and apply basic concepts of probability



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SCIENCE CURRICULUM

SECOND GRADE SCIENCE – STUDENTS WILL . . .

SCIENTIFIC INQUIRY

1. Develop a curiosity and interest in the physical world around them
2. Plan and conduct simple investigations
3. Organize and communicate observations through drawing and writing
4. Ask and answer questions
5. Use data to construct reasonable explanations
6. Acquire new science vocabulary

LIFE SCIENCE (Bats, Owls, Dinosaurs, Insects & Butterflies, Penguins, Ocean Life)

7. Understand the basic needs, environment, movement, characteristics, growth, and reproduction cycle of bats and mammals.
8. Understand the basic needs, environment, characteristics, growth, and reproduction cycle of owls and birds of prey.
9. Understand the basic needs, environment, characteristics and reproduction of insects.
10. Understand the basic needs, environment, characteristics, growth, and reproduction cycle of butterflies.
11. Understand the basic needs, characteristics, and extinction of dinosaurs.
12. Understand the basic needs, environment, characteristics, growth, and reproduction cycle of penguins and polar bears.
13. Understand the basic needs and environment of ocean animals and plants.
14. Understand that organisms have basic needs.
15. Understand that organisms can survive only in environments in which their needs can be met.
16. Recognize that the world has many different environments.
17. Understand that each plant or animal has different structures that serve different functions in growth, survival, and reproduction.
18. Realize that humans change environments in ways that can be either beneficial or harmful for themselves and other organisms.
19. Understand that when the environment changes some plant and animals survive and reproduce and others die or move to new locations.
20. All organisms have an effect on the environment where they live.

PHYSICAL SCIENCE (Floating & Sinking, Magnets, Pulleys)

21. Understand that objects have many observable properties such as size, weight, shape, color, or temperatures.
22. Develop a growing curiosity and interest in the motion of objects through experimentation with pulleys.
23. Realize that the position and motion of objects can be changed by pushing or pulling.
24. Realize that the size of change is related to the strength of the push or pull.
25. Understand that objects are made of one or more materials, such as paper, wood and metal.
26. Understand that magnets attract and repel each other and certain kinds of other materials.
27. Explore and describe some of the effects magnets have on objects made of various materials.
28. **EARTH AND SPACE (Solar System, Antarctic & Arctic)**
29. Understand the basic structure of our solar system with its sun and planets.
30. Understand the basic properties, location, and movements of the sun, earth, and moon.
31. Identify the basic characteristics of objects in the night sky such as stars and meteors.
32. Understand that the sun provides the light and heat necessary to maintain the temperature of the earth.



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SOCIAL STUDIES CURRICULUM

SECOND GRADE SOCIAL STUDIES – STUDENTS WILL . . .

1. Learn geographic themes through identification of their neighborhood, community, state and country.
2. Use basic elements of map skills to learn the location of the oceans and continents of the world as well as states that border Iowa.
3. Demonstrate proper use of map keys, map symbols, and a compass rose.
4. Learn about ocean regions, Arctic, and Antarctic regions.
5. Learn about previous North American cultures by exploring Native Americans and Pilgrims.
6. Gain historical perspective by studying African American history and by studying biographies of presidents, women, and inventors.
7. Explore cultural connections by learning about Hanukah, Kwanzaa, and Christmas.
8. Investigate lifestyles of the farm and realize people in a community are interdependent to meet people's basic needs.



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LIBRARY MEDIA CURRICULUM

SECOND GRADE LIBRARY MEDIA CURRICULUM – STUDENTS WILL . .

Information Management Skills:

Students will:

1. Browse, select and signout books.
2. Properly care for library materials.
3. Identify parts of the book.
4. Select library materials of personal interest.
5. Understand the steps in how a book is made.
6. Understand the arrangement of easy fiction, fiction, RP for Reading Practice, SC for Short Story, B for Biography, Numbers for Nonfiction, and Reference.
7. Distinguish among fact and fiction.
8. Explore the computer catalog.
9. Find topics in encyclopedias.

Literature Skills:

1. Listen to and share stories.
2. Select library materials of personal interest.
3. Predict outcomes and draw conclusions.
4. Recall and retell stories.
5. Identify and describe plot, setting, main characters, point of view.
6. Relate personal experiences to stories.
7. Explore folktales and fables.
8. Identify a variety of authors and illustrators.
9. Become aware of poets and poetry.
10. Participate in Readers Theater.
1. Become aware of poets and poetry.



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PHYSICAL EDUCATION CURRICULUM

SECOND GRADE PE – STUDENTS WILL . . .

1. Learn rhythmic activities (jump roping and dance).
2. Learn manipulative skills (throwing, catching, striking).
3. Learn games of low organization with an emphasis on fitness and loco motor skills.
4. Learn to follow directions.
5. Work to achieve and maintain a high level of fitness
6. Apply movement concepts and principles to the learning and development of motor skills.
7. Cooperate with others.
8. Learn how to give others the opportunity to succeed

HEALTH CURRICULUM

SECOND GRADE - STUDENTS WILL . . .

1. List ways to stay safe on playground, in vehicles, and on bikes
2. Understand basic rules for gun safety
3. Understand basic rules of water safety
4. Categorize drugs into legal and illegal groups
5. Categorize foods into proper food groups

