



West Linn-Wilsonville Schools

**Educational
Program**

FOURTH GRADE

**Skills, Concepts and Processes
for Learning**

Revised July 2002

The Child as a Learner and Member of the Community

GRADE 4

Learner

Children develop lifetime habits that sustain the joy of learning. As learners, fourth grade children:

- develop patience and persistence
- develop capacity to attend to a task
- develop a sense of organization
- take care of tools and put materials where they belong
- ask questions
- look for multiple resources
- invite and offer constructive direction
- follow multiple-step directions
- take intellectual risks
- display craftsmanship in process and products
- set goals and use time wisely

Community Member

As contributing members of the learning community, children's interactions are characterized by honesty, integrity, respect, and responsibility. In learning, service, and leadership, fourth grade children:

- share ideas, information, and materials
- respect others' property, ideas, differences, and right to learn
- contribute to the problem-solving process
- accept and offer constructive criticism and praise
- take ownership for behavior and learning

ENGLISH/LANGUAGE ARTS

GRADE 4

Reading

Children construct meaning from print. As skilled readers, fourth grade children:

- understand concept of paragraph, chapter, section, and other organizational formats
- use a variety of strategies to decode new words
- use a variety of strategies to check the meaning of new words and phrases
- use structural analysis (syllables, compound words, root words, and affixes) to determine new words and their meanings
- recognize the multiple meaning of words
- identify and read a variety of genres

- recognize and retell the sequence of a complex story or event with details
- identify main ideas
- predict outcomes and identify causes
- make judgments and draw conclusions from readings
- interpret figurative language (colloquialism, metaphor, simile, hyperbole)
- identify setting, plot, characters, and theme
- identify character motive and author purpose
- identify character relationships
- identify literary devices (flashbacks, foreshadowing, etc.)
- compare and contrast versions of a complex story or event
- relate new ideas and information to other texts and to previous experience and knowledge
- comprehend texts on literal, inferential, and evaluative levels
- comprehend texts through text analysis (author's ideas and craft) and context analysis (historical, societal, and cultural influences on or of the text)
- read a passage fluently with expression
- appreciate, identify, and experiment with patterns of rhyme and rhythm in language
- formulate and express a personal reaction to a variety of readings based on elements of literary criticism
- select appropriate reading material for level, interest, and need
- extend and deepen comprehension by relating texts, experiences, issues and events

Writing/Speaking/Listening/Dramatic Interpretation

Children construct meaning in oral and written communication, movement, and drama. As communicators, fourth grade children:

- use a variety of writing, drawing, webbing, and graphic organizers as tools for learning
- write common words correctly
- use multiple strategies to spell words correctly
- use appropriate volume, rate, gestures, eye contact, and inflections
- use correct, complex grammatical structures
- interpret poetry and drama orally and in movement
- use appropriate listening and audience skills
- participate appropriately in group discussions
- express own feelings, knowledge, opinions, and ideas in written, oral, pictorial, and dramatic forms
- use a variety of modes (persuasive, narrative, expository, imaginative)
- incorporate "voice" in writing
- generate a variety of topics
- organize ideas in an understandable format (by chronology, priority, magnitude of ideas, spatial orientation, parallel structure, etc.)
- organize ideas using a beginning, middle, and end
- use transitions to connect ideas
- value and apply draft-revision process
- select appropriate format for audience and message
- edit for capitalization, punctuation, spelling and grammar
- present important information about a topic or idea
- write in a presentation style (both manuscript and cursive) as well as in "quick-hand" for notes
- use knowledge of parts of speech to enhance communication
- expand vocabulary to include rare and unusual words

Research and Study Skills

Children learn about their world through questions, gathering data, and creating and communicating meaning. As researchers, fourth grade children:

- distinguish fact, fantasy, and opinion in stories and explanations
- ask questions that lead to investigation and guide data collection
- locate, select and evaluate appropriate resources, experiment with objects, and sources to find information
- recognize and organize a simple outline
- use a dictionary, thesaurus, atlas, and other reference resources
- use table of contents, index, glossary, headings, diagrams, and bibliography,
- paraphrase information after consulting several sources
- evaluate and organize information
- create models, drafts and prototypes to test ideas
- generate qualities of the end-product needed for success
- express ideas, information, and generalizations in oral, pictorial, dictated, written, artistic, and dramatic forms
- retell the process used
- reflect on the qualities of the product and process
- initiate new questions beyond what was learned in the study

MATHEMATICS

GRADE 4

Children manipulate concrete objects and describe their thinking to demonstrate basic computation and mathematical reasoning. As mathematicians, fourth grade children:

solve problems

- use multiple attributes of an object to sort, re-sort, and describe the rule(s) used
- identify, record, extend, create, and describe patterns
- select and use relevant information to solve a problem
- use manipulatives, pictures, or models to demonstrate understanding of basic functions with large numbers, fractions, and decimals (addition, subtraction, multiplication, division)
- choose the correct operation and accurately compute for single and multiple step problems with and without a calculator
- use a combination of strategies to find and check a solution (patterns, guess and check, draw a picture, make a systematic list, build a model, estimate, calculator)

communicate mathematically

- write, count, and communicate using numbers to one million
- invent and share strategies for computation, problem-solving, and checking answers (addition, subtraction, multiplication, and division)

reason mathematically

- explain process and justify answers
- use estimates to identify "reasonableness" of an answer

make mathematical connections

- use appropriate skills to solve real world problems such as those involving the store, checkbooks, newspaper ads and articles, cooking, elapsed time

estimate

- use vocabulary & symbols for "greater than," "less than," & "equal to"
- use rounding to estimate computation solutions
- round decimals to the nearest whole

demonstrate number sense/place value

- describe, compare, and order numbers to 1,000,000
- identify patterns in numbers 1 to 1,000,000
- read, write, and spell numbers 0 to 1,000,000
- read, write, and spell decimal numbers (tenths, hundredths, thousandths)
- use expanded notation to describe numbers to 1,000,000
- identify prime numbers, factors, and multiples

compute whole numbers

- recognize, create, and illustrate real world addition, subtraction, multiplication, and division problems using large numbers and regrouping
- develop strategies and algorithms for addition, subtraction, multiplication, and division of large numbers, including regrouping with and without calculators
- memorize math facts: multiplication (combinations to 12x12) and their related division facts

demonstrate algebraic relationships

- use variables and open sentences to express algebraic relationships

demonstrate understanding of geometry and spatial sense

- apply concepts of geometric polygons and solids in design work
- create visuals to represent and find area and volume
- estimate, measure, and record length and perimeter
- estimate and find the area of polygons
- use vocabulary: point, line, ray, and segment; perimeter, area, and volume; parallel and perpendicular
- describe how shapes change as they rotate, reflect and transform

measure

- use, compare, and compute with standard units of measurement in length, volume, weight, time, and temperature
- identify the appropriate unit of measurement given a performance problem

use statistics and probability

- create and interpret a variety of charts and graphs (line, bar, and circle graph)
- find average
- develop and implement plans for collecting and analyzing data to answer questions
- describe mathematically the likelihood of an event

use fractions

- describe parts of a region using fractions
- sequence common fractions
- add and subtract common fractions
- convert common fractions to decimals
- add and subtract simple decimals, fractions, and mixed numbers

SOCIAL / SCIENTIFIC STUDIES

GRADE 4

WHEN CHILDREN ARE TAUGHT IN FOURTH AND FIFTH GRADE BLENDED CLASSROOMS, THE CONTENT IN SOCIAL STUDIES AND SCIENCE EXTENDS OVER TWO YEARS. AS FOURTH GRADERS, CHILDREN MAY BE ENGAGED IN ONE OF THE FOLLOWING GROUPS OF TOPICS

Social Studies: United States

- Exploration
- Migration
- Inventions/Technologies

Science: Systems and Interactions

- Electricity and Magnetism
- Water and the Oceans
- Organisms and Environments
- Human Body - The Brain and Nerves
- Safety

Children develop understanding of broad-based concepts through first-hand investigations, inquiry, perspective taking, the stories of our predecessors and contemporaries, and a commitment to serve the global community. As social/scientific investigators, fourth grade children:

- formulate rules that help people stay safe and get along with each other
- use a variety of recording and organizational tools in combination
- make inferences, predictions, and generalizations from evidence
- create and use maps to represent actual places, including accurate features, multiple types of information, and directionality
- gather information from charts, graphs, and maps and cross-compare information
- define relationships that support community life (i.e., global, ecological, regional, economic, historical, social, cultural)
- describe how geographical and geological qualities help define a community
- describe how communities over time define themselves through their behavior and are affected by technology
- describe the intended and unintended effects of technology on systems
- identify the smaller parts of a system that work together to perform a function
- explain how exploration has shaped and been shaped by boundaries shaped by
- describe how change in boundaries can come from and lead to conflict, risk, and resolution
- identify the progression from challenge to resolution
- identify the causes and effects of chronological events
- compare and contrast historical events
- use the investigative processes of inquiry, observation, research, analysis, and communication
- use multiple sources to verify and extend information
- participate in solving problems and making decisions regarding current, significant issues
- recognize that there are different ways of looking at

THE ARTS

GRADE 4

Children develop lifelong artistic dispositions through drama, art, music, dance, and cinema. By developing artistic discipline children learn the value of focus, concentration, practice, poise, confidence, and the importance of working well both individually and in a group.

As visual artists fourth grade children:

- identify, describe, and use variations of line, value, texture, and color
- combine two or more elements in their own art works
- look critically and draw carefully what is seen
- identify shapes, lines, and colors in the environment and in works of art
- recognize characteristics of studied artists
- explain feelings and ideas about works of art using elements as criteria
- use art as a means of expression
- create own palette (values) to use in artistic expression

As musicians fourth grade children:

- perform music and dance from many cultures

- participate in performances that integrate music with other arts
- assess a musical performance based on criteria
- identify instruments aurally and visually
- experiment with instrumental and vocal sounds
- create impromptu songs from a pattern and instrument exploration
- create a vocal or instrumental composition

PHYSICAL EDUCATION

GRADE 4

Children engage in activities that contribute to intellectual, social, emotional, and physical development and that enhance and enrich understandings of other curricular areas. In working toward lifelong habits of health and fitness fourth grade children:

- participate in active leisure activities
- demonstrate cooperation
- use eye-hand coordination in games and accuracy drills
- demonstrate balance in activities
- demonstrate basic understanding of rules and strategies for a variety of individual and group activities
- identify and monitor the physical effects of moderate to vigorous exercise on their own body
- integrate movement and manipulative skills
- interact in ways that are personally and socially responsible using problem solving, conflict resolution, and keeping the importance of winning and losing in perspective
- participate safely in group settings with respect for the space, needs, and personal characteristics of others

HEALTH and SAFETY

GRADE 4

Health studies in grades 4 and 5

Children begin to make healthy choices that will become habits. As consumers and citizens, fourth grade children:

- understand brains and nerves as the human body control system
- understand digestive, respiratory, and circulatory systems
- identify safe and healthy choices
- demonstrate fire, earthquake, bus, and pedestrian safety
- deal safely with germs, injuries, and body fluid
- use knowledge of nutrition to make wise food choices
- develop positive decision-making strategies to ensure one's health and safety

TECHNOLOGY

GRADE 4

Children use technology as a tool for learning. Using technology, fourth grade children:

- demonstrate proper use and care of computers and other audio-visual equipment
- use a variety of electronic resources (including computer software, electronic encyclopedias, the library catalog, other electronic references and video) to enhance learning and access information
- use computers to express ideas with drawing, multi-media and word processing software

SPANISH

GRADE 4

Children develop listening and speaking skills in Spanish. Children begin to develop understanding of some Spanish speaking cultures. In working toward competency in Spanish fourth grade children will:

- listen to stories
- respond to directions
- use greetings in dialogue
- use alphabet to write simple words and phrases
- read simple words and phrases
- name shapes and colors
- describe larger and smaller
- develop vocabulary for face, body, family, home, and community

West Linn-Wilsonville Schools

PRIMARY SCHOOLS

Boeckman Creek Primary School 503-673-7750
6700 SW Wilsonville Road; Wilsonville, OR 97070

Bolton Primary School 503-673-7050
5933 SW Holmes Street; West Linn, OR 97068

Boones Ferry Primary School 503-673-7300
11495 SW Wilsonville Road; Wilsonville, OR 97070

Cedaroak Park Primary School 503-673-7100
4515 S. Cedaroak Drive; West Linn, OR 97068

Stafford Primary School 503-673-7150
19875 SW Stafford Road; West Linn, OR 97068

Sunset Primary School 503-673-7200
2351 Oxford Street; West Linn, OR 97068

Willamette Primary School 503-673-7250
1403 12th Street; West Linn, OR 97068

MIDDLE SCHOOLS

Athey Creek Middle School 503-673-7400
2900 SW Borland Road; West Linn, OR 97068

Rosemont Ridge Middle School 503-673-7550
20001 Salamo Road; West Linn, OR 97068

Inza Wood Middle School 503-673-7500
11055 SW Wilsonville Road; Wilsonville, OR 97070

HIGH SCHOOLS

West Linn High School 503-673-7800
5464 West "A" Street; West Linn, OR 97068

Wilsonville High School 503-673-7600
6800 SW Wilsonville Road; Wilsonville, OR 97070