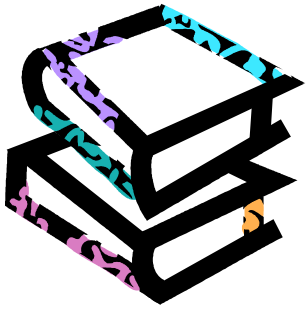
Fifth Grade Curriculum



Wondering what your child will be expected to know and do in reading, writing, math, art, science, PE and social studies in both English and Japanese? This guide briefly outlines the Oregon standards for each subject at the 5th grade level. Please do not hesitate to ask your child's teachers if you have questions or would like more information about any aspect of your child's academic program.

CONTENTS:

LITERACY BENCHMARKS

READING

- Read aloud 5th grade material with 90-100% accuracy.
- Read familiar material with natural phrasing, flow and pace.
- Self-correct consistently using phonics, language structure, contextual clues and text organizers.
- Determine word meaning in text.
- Use information from charts, diagrams and glossaries to assist in comprehension.
- Locate key information and supporting details.
- Identify sequence of events, main ideas and details or facts in literary and informational text.
- Restate, summarize and paraphrase what is read to monitor understanding.
- Relate new information to personal experiences and previous knowledge.
- Identify relationships, images, repeated actions, patterns or symbols, and draw conclusions about their meaning.
- Analyze and evaluate information to form reasonable opinions, conclusions and judgments.
- Read and compare two or more texts about a topic or from one genre.
- Read for a sustained period of time (45-60 minutes independently per day).

LITERATURE

- Read, listen to and identify literary forms—novels, short stories, poetry, plays and non-fiction from a variety of cultures and time periods.
- Make inferences and draw conclusions about how the character, plot, and setting contribute to the impact of the selection.
- Compare and contrast similar stories from several geo-cultural groups.

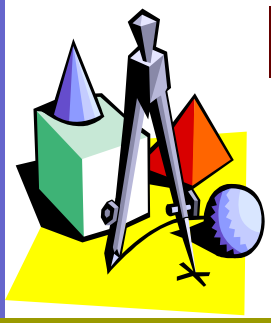
WRITING

- Use prewriting activities to initiate writing (e.g. mapping, listing, webbing.).
- Write a clear and cohesive drafts of multiple sentences with supporting details.
- Revise writing based on input from self, peers and adults.
- Edit writing to correct most punctuation, grammar and spelling errors.
- Produce a final draft appropriate to grade level, for a variety of purposes.
- Write narrative, imaginative, expository and persuasive pieces of writing.
- Research and write to convey a clear understanding of at least two resources.
- Demonstrate organization by developing an introduction, body of text and conclusion with sequencing of ideas.
- Use knowledge of phonics, complex word patterns, and frequently written words to improve spelling.
- Demonstrate correct use of grammar and punctuation.
- Select language, approach, form, style and descriptive words to create a picture in writing.

MATH

NUMBER & COMPUTATION FOR FIFTH GRADE

- Select and use appropriate operations and computation to solve problems.
- Calculate and explain +/- of commonly used fractions and decimals; recognize equivalent forms of fractions, decimals and percents.
- Know multiplication facts through 10 and factors and multiples through 100.
- Estimate the results of adding, subtracting, multiplying and dividing whole numbers, fractions and decimals.
- Have a variety of efficient paper/pencil and mental strategies for multiplying and dividing whole numbers (up to 2 place divisors).
- Explain concepts of odd/even, primes, factors, multiples and composites.



GEOMETRY

- Use definitions to classify and compare shapes.
- Identify and describe line and rotational symmetry in 2-dimensional shapes and designs.
- Understand the concepts of congruence and similarity.
- Recognize the result of a transformation on a shape (e.g. flip, turn or slide).
- Understand the sum of angles in a triangle equals 180 degrees.
- Locate points on a coordinate grid and describe paths between points.

ALGEBRAIC THINKING

- Recognize, describe and extend geometric & number patterns.
- Given a number pattern, determine subsequent terms and describe the rule for generating the pattern.
- Use pictures, words, graphs and symbols to describe relationships between quantities.
- Use equations and number sentences to solve problems, including those involving a single variable.
- Represent the idea of a variable as an unknown quantity using a letter or symbol.

MEASUREMENT

- Measure length, weight, temperature, angle and volume with accuracy, and make reasonable estimates.
- Develop understanding of formulas to determine the area and perimeter of rectangles, triangles, and parallelograms.
- Carry out simple unit conversions to solve problems.
- Determine volume of simple rectangular prisms using unit cubes.

STATISTICS & PROBABILITY

- Read, construct and interpret a variety of graphs, including line, circle, bar graphs, and tables for two related sets of data.
- Use knowledge about sample size to evaluate data..
- Determine and compare the mean and median of set of data..

PROBLEM-SOLVING

- Communicate mathematical thinking is a variety of ways.
- Use multiple strategies to solve problems.

ART

CREATE, PRESENT & PERFORM: Apply ideas, techniques and processes in the arts.

AESTHETICS & CRITICISM: Respond to and analyze works of art, based on essential elements, organizational principles and aesthetic criteria.

HISTORICAL & CULTURAL PERSPECTIVES: Understand the relationship of works of art to their social, historical and cultural contexts, and the influence of the arts on individuals, communities and cultures.

K-5 SCIENCE STANDARDS

LIFE SCIENCE: Understand structure, function, and interactions of living organisms and their environment.

EARTH & SPACE SCIENCE: Understand physical properties of the Earth, how those properties change, and the Earth's relationship to other celestial bodies.

HISTORY & NATURE OF SCIENCE: Understand science as a human endeavor, the nature of scientific knowledge and the history of science as it relates to and clarifies scientific inquiries.

UNIFYING CONCEPTS & PROCESSES: Understand and apply major concepts and processes embedded within all sciences.

PHYSICAL SCIENCE: Understand structures and properties of matter and changes that occur in the physical world.

SCIENCE IN PERSONAL & SOCIAL PERSPECTIVES: Understand that science provides a basis for understanding and acting on personal and social issues.

SCIENTIFIC INQUIRY: Use interrelated processes to pose questions and investigate the physical and living world.

SCIENCE & TECHNOLOGY: Understand the interconnections among science, technology and society.

SCIENCE

CONTENT STRANDS FOR FIFTH GRADE

Variables: Students identify and control variables in experiments that teach students that relationships between variables can be used to make predictions.

Micro-worlds: Students become familiar with the use of various types of magnifiers and related equipment in this unit.

Earth, Moon & Stars: The motions and characteristics of space and their interactions with the Earth are explored.

PROCESS SKILLS FOR K-5 SCIENCE

OBSERVE: Gather information by using the senses or instruments to note facts or occurrences.

MEASURE: Collect data concerning physical characteristics such as dimension, quantity or capacity.

USE NUMBERS: Count, compute, and communicate quantitative data using figures, letters, words and symbols.

CLASSIFY: Organize objects or events by their attributes.

QUESTION: Identify problems and develop testable statements relating to the problems.

COMMUNICATE: Exchange information and ideas.

DESIGN EXPERIMENTS: Plan and conduct data gathering operations to test hypotheses, answer questions and generate new ideas.

INTERPRET DATA: Find patterns or meaning in experimental results.

DEFINE OPERATIONALITY: Use experiments to develop working definitions of objects or events.

FORMULATE MODELS: Use problem-solving and questioning skills to develop mental models to explain phenomena.

HYPOTHESIZE: Use information and questions to generate statements that predict the likely outcome of an investigation.

INFER: Conclude from evidence and experience.

PREDICT: Declare in advance what is likely to happen, based on experience.

CONTROL VARIABLES: Identify and manage factors that may influence the outcome of an experiment..

Social Studies

THEME - Understanding the United States

SKILLS.CONCEPTS

- Understand key influences in US history how they shape our lives today.
- Understand economic concepts: how and why available resources are allocated.
- Key people, events, discoveries, inventions, current and past cultures and their effects.
- Understand concept of location: locate and explain.
- Geography of the United States.

HISTORY

- The land and indigenous people and cultures
- Age of European exploration and conquest.
- Establishing the Colonies: the Virginia settlement, New England, the middle colonies and southern colonies.
- The American revolution..
- Settling the trans-Appalachian west.
- Linking part to present—contemporary American life in context with national themes.

CIVICS & GOVERNMENT

- Understand key government and political systems; rights and responsibilities of citizens.
- Compare and contrast essential ideas in the Declaration of Independence, Constitution and the Bill of Rights.
- The branches of government and levels of government in the United States.

Physical Education

MOTOR SKILLS & CONCEPTS

- Demonstrate combinations of locomotor and manipulative skills in complex and/or game-like situations..
- Demonstrate competence in manipulative skills in dynamic situations (e.g. running and catching a leading pass, fielding a softball).
- Combine rhythmic movements and foot patterns into a routine.
- Use constructive feedback to improve performance.
- Design and refine a repeatable routine individually with partner or small group, using various jumping skills, other movements and objects.
- Recognize that time, effort and quality practice are prerequisites for skill improvement.

ACTIVE LIFESTYLE

- Identify activities which work specific muscle groups.
- Select and participate in activities which provide exertion, enjoyment and challenge, at least 20 min. daily.
- Know about opportunities to be physically active in and out of school.

SELF-MANAGEMENT & SOCIAL BEHAVIOR

- Independently follow rules, procedures and safe practices.
- Remain on task in a group activity without close teacher monitoring.
- Develop cooperation skills to accomplish group or team goals in both recreational and competitive activities.
- Resolve conflict with sensitivity to the rights of others.

The information in this brochure has been assembled by Kathryn Anderson, Richmond principal, for the convenience of our parents and teachers. For information about the Oregon content standards in greater detail, please check the Richmond website at www.richmondjmp.org or the Oregon Department of Education website at www.ode.state.or.us.