



FOURTH GRADE Learning Objectives for Language Arts



READING AND LITERATURE

The learner will

- ☑ read a variety of fourth grade texts with accuracy, appropriate rate, expression and comprehension.
- ☑ read and listen to a range of texts from across cultures, time periods and genre to broaden perspectives.
- ☑ summarize the main idea(s) of narrative text and major idea(s) of expository text with relevant details.
- ☑ use comprehension strategies to monitor his/her own comprehension and deal with obstacles in understanding: paraphrasing, confirming/rejecting predictions, generating questions, consulting a dictionary, asking others, inferring, cause and effect.
- ☑ develop and use decoding strategies: rereading, slowing down, sounding out, reading on.
- ☑ identify and explain the defining characteristics of a story: main events, setting, plot, problem/conflict, characters, personality of characters, solution, beginning, middle and end.
- ☑ read, identify and explain different types of genre: non-fiction, fiction, plays, biography, autobiography, poetry, myths, legends, expository, fantasy, realistic fiction, historical fiction, newspapers.
- ☑ distinguish between fact and opinion.
- ☑ apply personal understanding of ideas and themes in texts to solve problems, comprehend other texts and inform perspectives about the world.
- ☑ recognize and develop grade level high frequency words.
- ☑ learn new vocabulary from weekly stories and subject specific vocabulary.
- ☑ recognize and use correct antonyms, synonyms, adverbs, adjectives, pronouns, nouns (common and proper), verbs (helping and main), contraction/possessives.
- ☑ participate in literature groups.

WRITING AND GRAMMAR

The learner will

- ☑ use six-trait writing to include: idea and content, word choice, voice, fluency, organization, writing conventions.
- ☑ successfully use writing process: choose a seed, pre-write, rough draft, self edit, peer edit, conference, revise, conference, publish.
- ☑ organize ideas into graphic organizers.
- ☑ write and identify following types of writing: friendly letter, research paper (1-2 pages), descriptive paragraphs, persuasive paragraphs, compare/contrast, short answer responses, poetry, persuasive letter.
- ☑ identify, self-correct and correctly use: commas, correct homophone, abbreviations, exclamation mark, question marks, quotation marks, single/double negative, verb tense choice, subject-verb agreement, colon in time, apostrophe, addresses, capitalization, closing of a letter, underlining, preposition, interjection, conjunction, adverbs, adjectives, pronouns, nouns (common and proper), verbs (main and helping).
- ☑ identify the meaning of common prefixes, suffixes and root words.
- ☑ use knowledge of word origins: synonyms, antonyms, homonyms, multiple meaning of words.
- ☑ identify sentences as interrogative, imperative, exclamatory, declarative.
- ☑ use manuscript writing on every day basis with accuracy and readability.
- ☑ write cursive upper-case and lower-case letters A through Z.
- ☑ learn new spelling words weekly.
- ☑ take notes from overhead, white board and expository texts.

SPEAKING AND LISTENING

The learner will

- ☑ give organized formal and informal oral presentations using eye contact, proper pace, volume and clear enunciation.
- ☑ express an opinion of literary work in an organized way, with supporting details.
- ☑ retell a story with a beginning, middle and end, including important details and story elements with subject related information and vocabulary.
- ☑ use teacher developed criteria to prepare formal presentations.
- ☑ follow multi-step directions.
- ☑ listen attentively and respond appropriately to the ideas of others in a group situation.
- ☑ share own ideas and experiences.
- ☑ incorporate visual aids to support presentation.



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STUDY SKILLS/RESEARCH METHODS

The learner will

- ☑ apply knowledge of text features to locate information and construct meanings: chapter titles, headings, sub-headings, diagrams, illustrations with captions, tables of contents, indices, glossaries, tables, graphs, charts, maps, written directions, cartoons.
- ☑ use reference materials: dictionary, magazines, audio-visual material, encyclopedia, computer reference sources, newspapers, atlases, timelines, thesauruses.
- ☑ organize information by: making graphic aids (maps, diagrams, charts), taking notes, writing summaries
- ☑ select and use the appropriate resources for the task: dictionary for word meaning, encyclopedia for concept information, thesaurus for synonym.
- ☑ gather information from a variety of sources on one topic.
- ☑ take notes from research and form notes in own words.
- ☑ demonstrate personal organization skills through managing his/her homework folder, cubby, mailbox, journal and daily work.
- ☑ use the library for specific purposes as well as for browsing.
- ☑ develop understanding of library systems.



FOURTH GRADE Learning Objectives for **Mathematics**



NUMBER SENSE

The learner will

- recognize and name place value to millions.
- read, write and locate in sequence numbers up to millions.
- round whole numbers to a given place.
- find whole numbers and fractions on a number line.
- read, write and identify place value for decimals to the thousandths.
- begin finding equivalent fractions.
- compare fractions.
- begin to write ratios as fractions and percents.
- begin to give equivalencies between key fractions, decimals and percents.
- shade hundreds grid to represent a fraction or decimal.
- understand the relationship among halves, fourth and eighths.
- understand the relationship among thirds, sixths and twelfths.
- describe numbers according to equality and inequality (<,>=).
- use a number line to represent positive numbers, negative numbers and net change.
- exhibit understanding of the base ten number system.

COMPUTATION

The learner will

- understand and use the inverse relationship between addition and subtraction, division and multiplication.
- select, use and explain the commutative, associative and identity properties of operations in whole number problem situations.
- accurately use estimation in addition, subtraction, multiplication and division problems less than a thousand.
- multiply a three digit number by a three digit number.
- know multiplication facts through 12×12 from memory.
- know and use division patterns for two, three, five, six, nine, ten and eleven (288 is even, thus divisible by 2).
- solve problems of long division through three digits with one digit divisor.
- interpret remainders in division problems.
- complete division problems with zeros in the quotient.
- solve division problems involving money.
- solve addition problems with addends to the ten-thousands place using pencil and paper.
- complete multi-digit subtraction problems.
- add and subtract decimals to thousandths place.
- add and subtract fractions of like denominators.
- identify denominator and numerator.
- predict the probability of outcomes of simple experiments.
- begin to solve problems using parentheses.
- develop and solve word problems using addition, subtraction, multiplication and division.

ALGEBRA

The learner will

- solve simple missing digit problems for addition, subtraction, multiplication and division.
- understand that a missing digit can be represented by a shape or a letter.
- write the answer to a missing digit problem correctly, example: $n=5$.
- identify and describe patterns.



FOURTH GRADE Learning Objectives for **Mathematics**



GEOMETRY

The learner will

- ☑ describe, model, draw, compare and classify: trapezoid, parallelogram, rhombus, quadrilateral, pentagon, rectangle, hexagon, octagon, square, cone, cylinder, sphere, pyramids, cube, rectangular solid.
- ☑ recognize and compare shapes that are congruent and similar.
- ☑ describe and apply techniques such as reflections, rotations and translations for determining if two shapes are congruent.
- ☑ recognize and draw a line, line segment and ray.
- ☑ compare, draw and recognize lines that are perpendicular, parallel and intersecting.
- ☑ name and draw acute, obtuse and right angles.
- ☑ name and draw right, isosceles, equilateral and scalene triangles.
- ☑ begins to define and label the diameter and radius of a circle.
- ☑ explain plane and solid shapes according to their parts (angles, line segments, vertices, edges, faces).
- ☑ identify measurement for simple turns in degrees (45, 90, 180, 360).

MEASUREMENT

The learner will

- ☑ understand the relationship between inch, foot, yard, mile.
- ☑ understand the relationship between millimeter, centimeter, meter, kilometer.
- ☑ choose appropriate measurement for measuring.
- ☑ find perimeter, area and volume.
- ☑ determine elapsed time and time until.
- ☑ write time correctly for a 12 hour and 24 hour digital clock.
- ☑ read a 12 hour and 24 hour clock accurately.
- ☑ read and use a calendar.
- ☑ recognize and know values for coins and bills of local Rand and U.S. dollar currency.
- ☑ represent monetary amounts using correct notation and symbols.
- ☑ count and identify mixed currency amounts to \$100.00.
- ☑ use money to make a purchase and change accurately.
- ☑ solve simple currency exchanges using multiplication and division.
- ☑ tell temperature using Celsius and Fahrenheit scales.
- ☑ use temperature readings to describe conditions in everyday terms.
- ☑ choose appropriate tools and units to estimate and measure given objects.
- ☑ carry out simple unit equivalency conversions within a system of measurement, e.g., cm to m, hours to minutes.
- ☑ measure and compare weights of given objects using ounces, pounds, grams and kilograms.
- ☑ understand and use non-standard and standard measures (customary and metric).

STATISTICS AND GRAPHING

The learner will

- ☑ collect and organize data using observations, measurements, surveys or experiments and identify appropriate ways to display the data.
- ☑ describe the overall shape of the data, including clumps, gaps, range and outliers.
- ☑ interpret different kinds of graphs.
- ☑ construct, draw conclusions and make predictions from various representations of data sets, including tables, bar graphs, pictographs, line graphs, line plots and tallies.
- ☑ find the median, mean, mode and range in a set of data.
- ☑ describe events as likely or unlikely and discuss the degree of likelihood using words such as certain, likely, unlikely, equally likely and impossible.
- ☑ graph points on a coordinate plane.
- ☑ recognize the four planes of a coordinate plane (negative and positive numbers).
- ☑ describe a point on a coordinate plane as a set/pair of coordinates.



FOURTH GRADE Learning Objectives for **Science**



INQUIRY PROCESS

The learner will

- ☑ create own system of measurement for length and angles.
- ☑ create researchable questions.
- ☑ discover steps of scientific process.
- ☑ use graphs to record data.
- ☑ set limitations for research.
- ☑ understand concept of outliers and how they effect data.
- ☑ understand concept of variables and the change of a variable on a system.
- ☑ organize large amounts of data into charts and graphs.
- ☑ effectively use data to draw conclusions and theories.
- ☑ organize data and discoveries into class oral presentation.
- ☑ plan and implement experimental investigations.
- ☑ ask well-defined questions.
- ☑ formulate testable hypotheses.
- ☑ collect information by observing and measuring.
- ☑ analyze and interpret information.
- ☑ construct reasonable explanations.
- ☑ communicate conclusions in a variety of ways including: graphs, tables, charts and written reports.

LIFE SCIENCE

The learner will

- ☑ recognize that plants store energy from the sun, which is transferred to the organisms that eat the plants.
- ☑ know that people use plants for food, fibers and other facets of life.
- ☑ understand that useful chemicals come from plants and are found in medicines.
- ☑ compare deciduous, coniferous and rain forests.
- ☑ know that soil is necessary for growth of most plants in an ecosystem.
- ☑ recognize that plants are an important part of a forest ecosystem.

PHYSICAL SCIENCE

The learner will

- ☑ know all electric charges either attract or repel one another.
- ☑ understand electrical interactions enable scientists to design systems for transmitting energy, powering machines and communicating over long distances.
- ☑ recognize that modern communication devices use a combination of electricity, light and sound to transfer information rapidly.
- ☑ understand that light can be transmitted, reflected, refracted and absorbed by different materials.
- ☑ begin to understand that sound is caused by vibrations that are transmitted through solids, liquids and gasses as waves.

EARTH SCIENCE

The learner will

- ☑ understand that oceans, rivers and lakes provide important routes for transportation.
- ☑ know that shallow waters in coastal regions are the most biologically productive areas on Earth.
- ☑ know that some human actions cause pollution, which threatens the continued availability of ocean resources.
- ☑ recognize that the Earth's crust is composed of rocks and minerals.
- ☑ begin to understand the processes acting on the Earth's surface produce changes in its landforms.
- ☑ understand resources in national parks will be available for future generations only if resources are conserved.



FOURTH GRADE Learning Objectives for **Social Studies**



HISTORY

The learner will

- ☑ find and label the major cities, provinces and geographic details of South Africa.
- ☑ understand the history of the flag changes of South Africa.
- ☑ recognize the people, songs and government changes that led to the current national anthem of South Africa.
- ☑ grasp the historical trends that led to the development of the apartheid system in South Africa and the people and events that led to a change of policy and government.
- ☑ begin to recognize key effects of apartheid on all South Africans and the economy, both historically and today.
- ☑ understand the events, marches, protests and resistances to the apartheid government.
- ☑ grasp the concept of how the end of apartheid came about and the new government of 1994.
- ☑ discuss the Truth and Reconciliation Commission.

CULTURE AND CIVICS

The learner will

- ☑ recognize the regional boundaries of the United States and geographical reasons for those boundaries.
- ☑ conduct a research paper on one state in the United States.
- ☑ produce a research paper on one state in the United States one to two pages in length.
- ☑ discuss the major historical events of a particular state.
- ☑ know the state symbols and “fun facts” of a particular state.
- ☑ know the weather patterns and geographical details of a particular state.
- ☑ draw an accurate map of a particular state.
- ☑ discuss and include relevant information about the population, events and people groups of a particular state in a research paper.

ECONOMICS

The learner will

- ☑ define what an economy is.
- ☑ recognize and define difference between producers and consumers.
- ☑ discuss difference between capitalism and communism.
- ☑ know how to recognize developing nations.
- ☑ begin recognize the interdependence of global economies.
- ☑ study global trade patterns.

GEOGRAPHY

The learner will

- ☑ recognize the purpose of geographic representations such as maps, globes and diagrams and how to display spatial information on a map, globe or other geographic representation.
- ☑ recognize the concepts of location and place and define terms such as absolute and relative location, hemisphere, equator, Prime Meridian, Tropic of Cancer, Tropic of Capricorn, Polar Zone, Temperate Zone, Tropical Zone, lines of longitude and latitude.
- ☑ describe the physical characteristics of a place: landforms, bodies of water, vegetation, weather and climate.
- ☑ explain the human characteristics of a place: settlement patterns, ethnicity, nationality, religious beliefs and customs, language, how people live, work and play, form of government, economic development of the place.
- ☑ give accurate directions using street names and north, south, east and west directionals.



FOURTH GRADE Learning Objectives for **Social Studies**



SOCIAL AND POLITICAL SYSTEMS

The learner will

- examine different types of states: dependencies, nation-states, city-states, empires.
- investigate types of government: direct democracy, tribal rule, absolute monarchy, dictatorship. Oligarch, constitutional monarchy, representative democracy.
- understand alliances and international organizations: NATO, UNICEF.
- relate the change of government in South Africa and the new political systems.