

# Subject Area Content and Skills List

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- Use the checklist to evaluate your child's progress. Check the skills he has mastered or write the level of mastery using a scale of 1-3.
  - 1: Developing
  - 2: Proficient
  - 3: Advanced

## Language Arts:

### Reading

- Use word recognition skills and strategies to read and comprehend text.
- Learn new sight words and vocabulary words.
- Read orally with fluency and expression.
- Draw an illustration to reflect a story.
- Identify and use words that rhyme, start, or end with the same sound.
- Develop the ability to recognize and describe the main idea, setting, plot, supporting details, characters, conflict, and theme in a story.
- Analyze a character.
- Create a character analysis collage.
- Demonstrate evidence of literal and inferential comprehension.
- Understand and recognize foreshadowing and symbolism.
- Understand and identify figurative language.
- Use context as a clue to the meaning of a word or phrase.
- Sort and define words by category.
- Understand and recognize a synonym and antonym.
- Understand and recognize a homophone and homonym.
- Understand story sequence.
- Develop the ability to make inferences and draw conclusions.
- Identify cause and effect relationships.
- Expand comprehension by analyzing, interpreting, and synthesizing information in text.
- Read to learn new information, to perform a task, or to enjoy a story.
- Understand literature written in a variety of genres.
- Identify differences between fiction and non-fiction.
- Recognize the three points of view in literature.
- State the difference between fact and opinion.
- Identify true and false statements.
- Read directions, and follow a recipe.
- Define words using a dictionary.
- Use research skills to search for, locate, extract, organize, evaluate, and use or present information that is relevant to a particular topic.
- Analyze a quotation.

### Spelling

- Apply spelling and phonics concepts through oral, written, and tactile practice.
- Learn basic spelling rules.
- Recognize silent letters in words.
- Understand and spell abbreviations and contractions.
- Add a suffix to a word.
- Add a prefix to a word.
- Identify a base word.

- Decode and spell words by breaking them into syllables.
- Identify the number of syllables in a word.
- Identify and write compound words.
- Arrange words in alphabetical order.
- Recognize and spell plural words.

#### Writing and Grammar

- Write in a journal.
- Use free writing to gather ideas about a story.
- Identify common and proper nouns.
- Understand that proper nouns begin with a capital letter.
- Identify and use pronouns correctly: nominative, objective, possessive, relative, interrogative, demonstrative, indefinite.
- Identify an antecedent.
- Recognize an appositive.
- Combine sentences using an appositive.
- Identify a predicate nominative.
- Use conjunctions correctly.
- Categorize words.
- Use commas to separate items in a list.
- Correctly use a semicolon.
- Recognize irregular plural nouns.
- Identify nouns and verbs; use correct subject-verb agreement.
- Differentiate between a concrete and abstract noun.
- Recognize the four principal parts of verbs: present tense, present participle, past tense, and past participle.
- Recall and identify helping verbs.
- Identify a linking verb.
- Learn irregular verb forms: to be, have, do.
- Diagram sentences.
- Identify a prepositional phrase, a preposition, and the object of a preposition.
- Understand that prepositional phrases can be used as adjective phrases.
- Identify an adjective phrase.
- Correctly use prepositions in a sentence.
- Identify a direct and an indirect object.
- Identify collective nouns.
- Identify the simple and complete subject in a sentence.
- Identify the simple and complete predicate in a sentence.
- Identify a reversed subject and predicate.
- Understand how to write and use possessive nouns.
- Identify the adjective that describes the noun.
- Recognize common and proper adjectives.
- Compare nouns using comparative and superlative adjectives.
- Identify limiting adjectives.
- Identify a predicate adjective.
- Identify an adverb.
- Write an outline using correct format.
- Write paragraphs using the points on an outline.
- Understand that a sentence is a group of words that expresses a complete thought.
- Recognize the difference between a fragment and a sentence.
- Understand that a sentence begins with a capital letter and ends with a punctuation mark.
- Identify and write types of sentences: declarative, interrogative, exclamatory, imperative.

- Recognize the difference between phrases and clauses.
- Identify an independent and dependent clause.
- Correct a run-on sentence.
- Correctly use subordinating conjunctions.
- Identify coordinating conjunctions.
- Write compound sentences.
- Write dictated words and sentences.
- Write a paragraph or story about a designated topic.
- Fill in missing words in sentences.
- Use a graphic organizer to organize main ideas and supporting details.
- Organize information into categories.
- Understand and use a writing process.
- Write a title page and a simple bibliography.
- Write in a variety of forms for different audiences and purposes.
- Write clearly and effectively.
- Describe people, places, things, and events with relevant details.
- Recognize alliteration, personification, hyperbole, onomatopoeia, similes, and metaphors.
- Analyze and evaluate the effectiveness of written work.
- Learn about famous authors and their style of writing.
- Identify and avoid double negatives in writing.
- Identify the meter and rhyme scheme of a poem.
- Understand the significance of a poem.
- Write a couplet, a triplet, and a quatrain ending in rhyming words.
- Write a pun, a cinquain, a haiku, a limerick, and an acrostic.
- Write a concrete, catalog, diamond, and an I Am poem.
- Create a comic strip.
- Create a travel brochure.
- Apply the rules for italicizing titles of literary works, movies, music, artwork, ships, planes, and trains.
- Write a tall tale.
- Extend a story written by another author.

#### Communication

- Use listening and observation skills and strategies to gain understanding.
- Use communication skills and strategies to interact and work effectively with others.
- Write statements or questions for a story, card, or interview.
- Demonstrate the ability to express an opinion, or present ideas in a variety of situations.
- Use transitional words and phrases to connect ideas.
- Demonstrate the ability to give oral descriptions.
- Write and read a persuasive speech or essay.
- Use effective vocabulary and logical organization to relate or summarize ideas.
- Recite and memorize poems and Bible verses.
- Evaluate an oral presentation using a rubric.
- Follow a set of multi-step directions.
- Describe the location of one object relative to another object using prepositional words.
- Understand the meaning of an idiom.
- Develop listening comprehension and the ability to retell a story.
- Pantomime objects or actions.
- Use a mnemonic.
- Develop keyboarding skills.

# Mathematics:

## Whole Numbers and Sets

- Skip count by different increments.
- Recognize, read aloud, and write the numerals in order from zero through hundred millions.
- Understand and identify place value for each digit in numbers to the trillions place.
- Apply expanded notation to model place value through the trillions place.
- Identify the value of Roman numerals.
- Identify even and odd numbers.
- Identify the number of digits in a number.
- Identify a number that comes after a given number.
- Identify a number that comes before a given number.
- Identify a number that comes between two given numbers.
- Identify one, ten, one hundred, and one thousand more than a given number.
- Round numbers to a given place value.
- Round a repeating and non-repeating decimal number.
- Write numbers in standard, expanded, and word form.
- Estimate sums and differences up to 100.
- Continue to develop the ability to understand and use ordinal numbers and words.
- Apply ordinals to daily experiences.
- Compare sets and determine if one set is equal to, greater than, or less than the other set.
- Use comparison symbols ( $<$ ,  $=$ ,  $>$ ).
- Develop mental math skills.
- Write dictated numbers.
- Express a relationship between numbers as a ratio.
- Understand the difference between a prime and composite number.
- Write the prime factorization of a composite number.
- Find the greatest common factor of two numbers.
- Find the least common multiple.

## Patterns and Operations: Algebraic Thinking

- Review addition facts 0-20.
- Review subtraction facts 0-20.
- Write addition and subtraction fact families.
- Understand that addition and subtraction are inverse operations.
- Create mathematical equations.
- Identify a missing addend.
- Use manipulatives to model and solve multiplication problems.
- Recall multiplication facts 0-12.
- Recall division facts 1-12.
- Use manipulatives to model and solve division problems.
- Divide, and show a remainder as a fraction of the divisor.
- Learn and apply the divisibility rules.
- Understand that multiplication and division are inverse operations.
- Use inverse relationships to check answers.
- Copy, extend, describe, and create simple repetitive patterns.
- Identify a missing symbol in a repeating pattern.
- Identify a missing term in a sequence.
- Use a variable to represent an unknown amount.
- Use variables in contextual situations.
- Evaluate an algebraic expression.
- Write an algebraic expression for a word phrase and a word problem.
- Use inverse relationships to solve for a variable in an equation.

- Write an equation to represent a model.
- Use digits and symbols to represent mathematical statements.
- Identify and write a function rule.
- Add, subtract, multiply, and divide multi-digit numbers.
- Use addition, subtraction, multiplication, and division to solve one- and two-step word problems.
- Recognize and apply the Associative Property of Addition.
- Recognize and apply the Associative Property of Multiplication.
- Recognize and apply the Commutative Property of Addition.
- Recognize and apply the Commutative Property of Multiplication.
- Recognize and apply the Identity Property of Multiplication.
- Recognize and apply the Zero Property of Multiplication.
- Apply the Addition Property of Equality.
- Apply the Subtraction Property of Equality.
- Apply the Identity Property of Zero.
- Use the Distributive Property to solve for a variable.
- Apply knowledge of the order of operations in math.
- Use the order of operations to simplify an expression.
- Simplify exponential numbers.

#### Geometry

- Identify, name, and describe polygons.
- Identify angles, vertices, faces and edges.
- Classify three-dimensional figures according to the number of faces, vertices, and edges.
- Classify a triangle as equilateral, isosceles, or scalene.
- Identify, name, describe, and build three-dimensional shapes.
- Identify the interior and the exterior of a shape.
- Draw a shape according to a given measurement and calculate the perimeter.
- Calculate the area of a regular and an irregular shape using a formula.
- Find the perimeter of a regular and an irregular shape.
- Find the perimeter and area of a composite figure.
- Calculate the volume of a rectangular prism.
- Identify and draw congruent shapes, lines, or line segments.
- Identify and draw horizontal and vertical line segments.
- Identify and draw parallel and perpendicular line segments.
- Identify the diameter and radius of a circle.
- Calculate the circumference of a circle with the given diameter.
- Draw angles of a given measurement.
- Identify angles: right, acute, obtuse.
- Use a protractor.
- Combine geometric shapes to make new shapes.
- Sort shapes and explain the sorting rule.
- Classify objects according to color, shape, size, function, likeness, and differences.
- Identify and draw a horizontal and vertical line of symmetry.
- Identify similar shapes.
- Create symmetrical designs.
- Recognize or draw a reflection over a line of symmetry.
- Make a net for polyhedra.
- Recognize and draw transformations in geometry: rotation, reflection, translation.

## Measurement and Estimation

- Use a ruler to measure inches, feet, yards, and centimeters.
- Measure and draw line segments to the nearest sixteenth inch.
- Measure and draw line segments to the nearest centimeter.
- Order objects by length or height.
- Arrange multi-digit numerals from least to greatest.
- Use digital and analog clocks to tell, write, and show time to the nearest minute.
- Show times using fractional parts of an hour.
- Arrange events in the correct order.
- Compare events according to duration.
- Solve problems using a calendar.
- Write a date in word and digital form.
- Read a Fahrenheit thermometer.
- Identify units of capacity: cup, pint, quart, gallon, teaspoon, tablespoon, liters, and milliliters.
- Make direct comparisons using measurable attributes such as length, weight, and capacity.
- Understand that one item may hold more or less than another item.
- Estimate the capacity of containers.
- Measure dry and liquid ingredients.
- Calculate equivalent measurements.
- Use a unit multiplier to convert measurements.
- Identify a dozen and half dozen.
- Say, write, and compute decimal numbers.
- Recognize and round decimal numbers to the nearest thousandth.

## Reasoning, Problem Solving, and Communication

- Make a prediction, and test to determine its accuracy.
- Use simple logic to solve a problem.
- Analyze and interpret data using logical reasoning.
- Use a graphic organizer to demonstrate a decision-making process.
- Describe how the problem was solved.
- Determine whether a solution to a problem is reasonable.
- Identify the questions asked in a problem.
- Recognize when additional information is required to solve a problem.
- Write a step-by-step description of a process.
- Draw a picture to illustrate a mathematical word problem.
- Answer a riddle.

## Money

- Identify pennies, nickels, dimes, quarters, and dollar bills.
- Find the value of a set of coins.
- Write the value of a set of coins as a fraction of a dollar and as a decimal number.
- Write amounts of money using a dollar sign and a decimal point.
- Compare monetary amounts using an inequality symbol.
- Select coins for a given amount.
- Pay for items and make change using coins and bills.
- Add and subtract money amounts using a decimal to represent the monetary values.
- Compare monetary values and determine if one set is equal to, greater than, or less than the other set.
- Solve word problems using money.
- Understand that money is accepted as final payment for goods and services.
- Identify the person on United States currency.

## Fractions

- Make models that represent given fractions.
- Recognize fractional parts of a given whole.
- Write a fraction to represent part of a whole.
- Compare fractions.
- Identify equivalent fractions.
- Expand a fraction to find equivalent fractions.
- Use number lines to add fractions with like denominators.
- Reduce a fraction to lowest terms.
- Identify numerator and denominator.
- Locate rational numbers on a number line.
- Use words to write a mixed number.
- Write a mixed number to represent a picture.
- Convert an improper fraction to a mixed number.
- Rename a pair of fractions using their least common denominator.
- Add and subtract fractions with like and unlike denominators.
- Multiply and divide fractions.
- Represent fractions with a circle graph.
- Convert fractions and decimal numbers to percents.

## Statistics and Probability

- Collect, sort, and tally data.
- Find the range, mean, median, and mode of a set of data.
- Solve problems using graphs, charts, and tables.
- Make an inference, and experiment to test the inference.
- Predict the most likely or least likely outcome in a probability experiment.
- Understand theoretical and experimental probability.
- State probability as a fraction.
- Make arrangements that represent the number of possibility combinations of items from a set.

## Graphing

- Use simple picture graphs, bar graphs, line graphs, circle graphs, tables, and charts to solve problems and record information.
- Compare information and draw conclusions using graphs.
- Collect, organize, describe, and display data using Venn diagrams.
- Plot ordered pairs on a coordinate plane.
- List coordinates that connect to make a design or picture.
- Recognize a positive or negative slope on a line graph.

## Social Studies:

- Learn about historical figures.
- Learn about famous explorers.
- Recognize and learn about the Great Lakes, midwestern, and southwestern states.
- Identify capital cities and postal abbreviations of states.
- Memorize the fifty states in alphabetical order.
- Learn about a historic event: the Oklahoma City bombing.
- Learn about United States history: World War II.
- Learn about World War II leaders.
- Recall facts about the American Revolution and World War I.
- Learn about Henry Ford and his contributions to the automobile industry.
- Understand and apply how maps and globes are used to display regions of the world.
- Locate the fifty states on a United States map.
- Locate continents and oceans on a world map.
- Make a physical map, a raised-relief map, and a topographic map.

- Use maps and photos to identify and locate major landmarks or major physical features of the United States.
- Understand that God created each of us uniquely.
- Understand family relationships and how individuals within a family work together for the good of the family.
- Identify occupations within a community.
- Recall the meaning of economic vocabulary.
- Apply basic economic principles.
- Recognize a need and a want.
- Understand how people make economic choices and stay within a budget.
- Identify and analyze the opportunity cost of economic choices.
- Differentiate between goods and services.
- Classify materials as natural resources, capital resources, or human resources.
- Understand that entrepreneurs are individuals who are willing to take risks, to develop new products, and start new businesses.
- Analyze a cost and benefits chart.
- Calculate the profit on goods.
- Understand the law of supply and the law of demand.
- Analyze a supply and demand curve.
- Understand economic concepts of surplus and shortage.
- Make a business plan and budget.
- Understand how cultural contributions of various groups have shaped the history of the world.
- Compare and contrast pioneer farming lifestyle to today.
- Learn the characteristics of a rural community.
- Compare and contrast communities.
- Learn about Native Americans.
- Recognize and learn about other continents.
- Understand how the environment affects cultural groups.
- Understand how individuals within a community work together for the good of the community.
- Characterize qualities of good citizenship.
- Place events in chronological order on a timeline.
- Understand the mechanization of agriculture.
- Make a chart of farming equipment development.
- Develop an understanding of basic fire safety procedures.
- Learn about the history of slavery and the 13th Amendment.

## Science:

- Learn about important scientists.
- Develop an understanding of science and technology.
- Develop an understanding of the relationships among technologies and other fields of study.
- Develop the ability to apply a design process.
- Use a microscope to make observations.
- Apply the scientific method to a problem.
- Demonstrate problem-solving skills.
- Use simple logic to develop a strategy.
- Function within the restrictions and constraints of a project.
- Analyze and evaluate the effectiveness and success of a plan.
- Explore the world through observation and experimentation.
- Make predictions and draw conclusions based on patterns or evidence.
- Learn about the professions of a marine engineer and naval architect.
- Identify the parts of an insect.
- Understand the life cycle of an insect.

- Sing an insect song.
- Construct a model of an orb web.
- Learn about the body's vital organs: brain, heart, kidneys, lungs, liver.
- Label the parts of the cerebral cortex.
- Label the four chambers of the heart and the blood path to and from the lungs.
- Label a diagram of the lungs.
- Learn the importance of blood donation.
- Locate a pulse.
- Calculate a heart rate.
- Use a stethoscope to listen to a heart beat.
- Understand the effect of exercise on the heart rate.
- Understand the function of a dialysis machine.
- Learn about living donation.
- Make a model of the lungs and diaphragm.
- Calculate a respiratory rate.
- Understand the effect of exercise on the respiratory rate.
- Determine how age and gender affect respiratory rate.
- Display information on a model.
- Learn about body systems: nervous, circulatory, respiratory, digestive, renal, integumentary, excretory, muscular, skeletal, immune.
- Label the parts of the renal system.
- Label the parts of the integumentary system.
- Identify the four major components of the digestive system.
- Make a device to measure tidal volume.
- Learn about and identify the parts of a cell.
- Draw a diagram and make a model of a cell.
- Complete a food consumption chart.
- Make a model of a muscle pair.
- Identify muscles of the body.
- Perform muscle stretches.
- Differentiate between living and non-living things.
- Classify living things.
- Learn about invertebrates: worms, sponges, cnidaria, echinoderm, mollusks, arthropods.
- Name the six sub-groups of invertebrates.
- Collect and observe worms.
- Identify the basic parts of a sponge.
- Make a lemon battery.
- Learn about raccoons and mountain lions.
- Understand that God gives animals instincts which help them survive.
- Understand that plants and animals progress through life cycles of birth, growth and development, reproduction, and death; the details of these life cycles are different for different organisms.
- Know that distinct environments support the life of different types of plants and animals.
- Understand how seeds grow.
- Understand the process of photosynthesis.
- Recall plant parts and functions.
- Classify objects.
- Make observations, and describe the weather.
- Understand that the world was created by God, and how we should take care of it.
- Understand the importance of healthy living.
- Recall the four food groups, and evaluate diet for good nutrition.
- Apply physics principles: potential and kinetic energy, inertia, force, friction.
- Observe and understand Newton's Laws of Motion.

- Apply Newton's Laws of Motion to the game of golf.
- Design a soap box car and racetrack.
- Learn about simple machines: inclined planes.
- Design a roller coaster using inclined planes.
- Recognize the characteristics and habitats of various types of animals.
- Understand the process of a hydrologic cycle.
- Make a terrarium to demonstrate the process of the water cycle.
- Demonstrate evaporation.
- Compare the density of fresh water and salt water.
- Demonstrate the moon's phases.
- Learn about epilepsy.
- Learn about multiple sclerosis.
- Learn about SONAR and echolocation.
- Develop a model to represent a scientific principle.
- Build a Rube Goldberg machine.
- Use the scientific method to learn about magnets.
- Identify the independent, dependent, and control variables in an experiment.
- Conduct an experiment with magnets.
- Create a magnet by rubbing an item with a strong magnet.
- Demagnetize a magnet using force and heat.
- Apply a magnetic principle: like poles repel.
- Build an electromagnet.
- Use the scientific procedure to determine how control variables affect the strength of an electromagnet.
- Understand that Earth has a magnetic field that protects us.
- Research to discover which animals have an internal compass.
- Design an experiment to determine if the poles of an electromagnet can be reversed.
- Understand the potential danger of tornadoes.
- Demonstrate a tornado.
- Learn about the Hoover Dam and hydroelectric power.
- Label a diagram of a hydroelectric power plant.
- Apply the principle of buoyancy.
- Gain awareness of firesafe behavior and wildfire prevention.
- Understand when wildland fires are beneficial and when they are damaging.
- Learn the history behind the Smokey Bear public awareness campaign.
- Use data to determine the origin of a fire.
- List the colors in a rainbow in the correct order.

## Physical Development and Fitness:

- Measure reaction time.
- Develop speed and agility.
- Develop eye-hand coordination: catching a ball with the non-dominant hand.
- Understand that it is best to warm up the muscles before trying to improve flexibility.
- Develop balance and body control.
- Perform muscle-strengthening exercises.
- Mirror another person's actions.
- Develop small motor skills as developmentally appropriate: copy patterns, gluing, using scissors/pencils/crayons, sewing.
- Develop large motor skills as developmentally appropriate: footwork, jogging, running, chasing, dodging, hopping, skipping, galloping, throwing/bouncing/catching/rolling/kicking/hitting a ball with accuracy, dancing, tumbling, balancing, playing games.
- Demonstrate understanding of movement concepts and strategies as they apply to physical activities.

- Demonstrate large motor skills within an obstacle course.
- Complete a fitness scavenger hunt.
- Develop flexibility and cardiovascular endurance.
- Participate in regular physical activity.
- Acquire skills to live safely and reduce health risks.
- Understand the relationship of nutrition to body composition and physical performance.

## Fine Arts:

- Continue to develop a basic music vocabulary.
- Demonstrate dynamics and tempo.
- Listen to and sing various types of music: patriotic, folk, seasonal, spirituals.
- Continue to improve coordination and express creativity through motions that keep time with music.
- Develop an ability to understand a song's message.
- Repeat rhythmic patterns using clapping or instruments.
- Perform written rhythmic patterns: whole note/rest, quarter note/rest, half note/rest, eighth note/rest.
- Understand the meaning of a time signature in music.
- Clap a rhythm pattern using a given time signature.
- Learn the value of notes and rests.
- Divide musical beats into measures.
- Use musical notes to write the rhythm of a song.
- Write a nursery rhyme and set it to a tune.
- Sing a song about bones and muscles.
- Create a rhythmic composition.
- Continue to develop a basic art vocabulary.
- Follow instructions, and complete a drawing.
- Draw objects from different perspectives.
- Understand the concept of symmetry and create symmetrical designs.
- Continue to develop small motor skills through cutting, gluing, painting, and folding.
- Use the color wheel to identify and use primary, secondary, and complementary colors.
- Identify and use color contrast.
- Identify and use warm and cool colors.
- Draw a fictional character based on a written description.
- Identify and use texture.
- Paint in the style of Pointillism.
- Look at and appreciate various works of art.
- Interpret art.
- Compare art from various cultures.
- Use various techniques and mediums to create original art.
  - mosaic
  - origami
  - suminagashi
  - tangle drawing
  - op art
  - abstract drawing
  - ink and wash
- Make a diorama.
- Learn about a famous artist and create art in his style.
- Make pottery.
- Make a three-dimensional model.
- Demonstrate the drawing technique of foreshortening.
- Make a snow globe.
- Create a mobile.

## Character Development/Bible:

- Understand the importance of rules.
- Understand the importance and value of being responsible.
- Understand how to be a good winner and a good loser.
- Demonstrate cooperation in a group game.
- Discuss ways to speak openly about your faith.
- Understand what the Bible says about helping others.
- Develop a strong work ethic.
- Use scripture to justify an answer.
- Understand and explain the importance of major Christian holidays.
- Recognize well-known characters from the Bible.
- Recognize well-known stories and parables from the Bible.
- Continue to develop biblical character traits.
- Memorize, understand, and apply scripture passages.