3rd Grade Notebook

MATH SPI's

NUMBERS & OPERATIONS

- ☐ 3.1.spi.1. count by 10's, 100's, and 1000's;
  - ☐ 3.1.1.a count by tens, hundreds, or thousands from any whole number;
  - ☐ 3.1.1.b skip count by tens from any whole number less than 1000;
  - ☐ 3.1.1.c read and write whole numbers to 9999;
  - ☐ 3.1.1.d represent numbers to 9999 in flexible ways using a variety of materials;
  - ☐ 3.1.1.e identify whole numbers as odd or even;
  - ☐ 3.1.1.f name the place value of a given digit in whole numbers to 10,000's;
  - ☐ 3.1.1.g write whole numbers up to 10,000 in expanded form (e.g., 873 as 800 + 70 + 3);
  - ☐ 3.1.1.h connect the spoken, written, concrete, and pictorial representations of fractions with denominators up to ten;
  - ☐ 3.1.1.j compare and order decimal amounts in the context of money;
- ☐ 3.1.spi.2. identify whole numbers as odd or even;
- ☐ 3.1.spi.3. add and subtract efficiently and accurately with single-digit whole numbers.
- ☐ 3.1.spi.4. represent whole numbers to 9999 with models;
- ☐ 3.1.spi.5. identify the place value of a given digit up to thousands;
- ☐ 3.1.spi.6. recognize the value of combinations of coins and bills up to $5;
- ☐ 3.1.spi.7. compare and order whole numbers to 9999 using the appropriate symbol (i.e.,<, >, =);
- ☐ 3.1.spi.8. add two- and/or three-digit whole numbers;
- ☐ 3.1.spi.9. connect written and pictorial representations of fractions with denominators up to ten;
- ☐ 3.1.spi.10. solve real-world problems using addition or subtraction of whole numbers;
- ☐ 3.1.spi.11. determine the correct change from a transaction that is less that $1.00;
- ☐ 3.1.spi.12. use estimation to select a reasonable solution in problem solving (addition and subtraction only).
- ☐ 3.1.spi.13. represent whole numbers up to 10,000 in expanded form (e.g, 1000's + 100's + 10's + 1's);
- ☐ 3.1.spi.14. compare unit fractions with denominators up to ten;
- ☐ 3.1.spi.15. subtract two- and/or three-digit whole numbers;
- ☐ 3.1.spi.16. use the multiplication facts 0, 1, 2, 5, and 10 efficiently and accurately.

ALGEBRA

- ☐ 3.2.spi.1. sort objects by two attributes.
- ☐ 3.2.spi.2. extend repeating and growing numerical or geometric patterns;
- ☐ 3.2.spi.3. represent repeating geometric patterns as repeating numerical patterns;
- ☐ 3.2.spi.4. determine the output for a particular input given the one operation function rule (i.e., addition, subtraction);
- ☐ 3.2.spi.5. solve open sentences that involve addition and subtraction of whole numbers zero to twenty.
- ☐ 3.2.spi.6. identify the rules by which objects or numbers have been sorted;
- ☐ 3.2.spi.7. connect open sentences to real-world situations.

GEOMETRY

- ☐ 3.3.spi.1. name two-dimensional geometric figures (i.e., rectangle, square, triangle, circle).
- ☐ 3.3.spi.2. name three-dimensional geometric figures (i.e., cube, cylinder, sphere, cone);
- ☐ 3.3.spi.3. recognize geometric figures that are the same size and shape;
- ☐ 3.3.spi.4. use appropriate mathematical language to find a point on a grid using whole number coordinates.
- ☐ 3.3.spi.5. identify the result of a transformation that has been applied to a simple two-dimensional geometric shape (i.e., flips or slides);
- ☐ 3.3.spi.6. identify the line of symmetry in a two-dimensional design or shape.

MEASUREMENT

- ☐ 3.4.spi.1. read and write time to the nearest hour, half-hour, and quarter-hour;
- ☐ 3.4.spi.2. measure length to the nearest centimeter and inch;
- ☐ 3.4.spi.3. solve real-world problems using a calendar.
- ☐ 3.4.spi.4. solve real-world problems involving addition and subtraction of one-or two- digit measurements;
- ☐ 3.4.spi.5. select an appropriate standard unit to measure length;
- ☐ 3.4.spi.6. use estimation to determine if a length measurement is reasonable;
- ☐ 3.4.spi.7. read thermometers with Fahrenheit and Celsius scales (positive whole number temperatures);
- ☐ 3.4.spi.8. read and write time at five-minute intervals.
- ☐ 3.4.spi.9. find the perimeter of a rectangle on a grid;
- ☐ 3.4.spi.10. solve real-world problems involving elapsed time to the half-hour.

DATA ANALYSIS

- ☐ 3.5.spi.1. interpret pictographs.
- ☐ 3.5.spi.2. interpret bar graphs;
- ☐ 3.5.spi.3. solve real-world problems in which data is represented in tables;
- ☐ 3.5.spi.4. determine whether an event is certain, possible, or impossible.
- ☐ 3.5.spi.5. determine the most likely, least likely, or equally likely outcomes in simple experiments (i.e., spinner, number or color cube);
- ☐ 3.5.spi.6. select all possible outcomes of a simple experiment (i.e., spinner, coin toss, number or color cube).

LANGUAGE ARTS S.P.I.s

READING

- ☐ 3.1.spi.1. identify and/or select rhyming words.
- ☐ 3.1.spi.2 distinguish individual sounds, including consonant blends, within words.
- ☐ 3.1.spi.3. recognize parts of a book (e.g,. glossary, table of contents).
- ☐ 3.1.spi.4. identify setting, characters, and plot in a reading selection.
- ☐ 3.1.spi.5. recognize root words and their various inflections (e.g., walks, walking, walked).
- ☐ 3.1.spi.6. determine word meaning within context using prefixes and suffixes.
- ☐ 3.1.spi.7. recognize grade level compound words, contractions, and common abbreviations within context.
- ☐ 3.1.spi.8. select appropriate synonyms and antonyms within context.
- ☐ 3.1.spi.9. determine word meanings through the use of context clues.
- ☐ 3.1.spi.10. identify different forms of text as poems, plays, or stories.
- ☐ 3.1.spi.11. identify the stated main idea of a reading selection.
- ☐ 3.1.spi.12. identify stated cause and effect relationships in text.
- ☐ 3.1.spi.13. distinguish between fact and opinion within text.
- ☐ 3.1.spi.14. determine sequence of events in a story.
- ☐ 3.1.spi.15. recognize basic plot features of...
  - ☐ fairy tales
  - ☐ folk tales
  - ☐ fables
  - ☐ tall tales (?)
  - ☐ myths
- ☐ 3.1.spi.16. recognize grade appropriate vocabulary within context.
- ☐ 3.1.spi.17. determine correct meaning/usage of multiple-meaning words.
- ☐ 3.1.spi.18. select questions used to focus or clarify thinking while reading.
- ☐ 3.1.spi.19. determine appropriate inferences from text.
- ☐ 3.1.spi.20. recognize how illustrations support the text.
- ☐ 3.1.spi.21. select information using available text features (e.g., maps, charts, and graphics).
- ☐ 3.1.spi.22. determine the problem in a story and recognize its solution.

ENGLISH

- ☐ 3.3.spi.1. identify correctly used capital letters in names, dates and addresses.
- ☐ 3.3.spi.2. select the simple subject and predicate of a sentence.
- ☐ 3.3.spi.3. recognize correct capitalization and end punctuation within context.
- ☐ 3.3.spi.4. identify the correct use of nouns (i.e., as subjects, singular and plural), verbs (i.e., present, past, and future, agreement), and adjectives (i.e., comparative and superlative) within context.
- ☐ 3.3.spi.5. identify the correct use of commas with dates, addresses, items in a series, and the greeting and closing of a friendly letter.
- ☐ 3.3.spi.6. identify declarative, interrogative, and exclamatory sentences by recognizing appropriate end marks.
- ☐ 3.3.spi.7. choose the correct formation of contractions and plurals within context.
- ☐ 3.3.spi.8. identify correctly (or incorrectly) spelled words in context.
- ☐ 3.3.spi.9. rearrange and identify words in alphabetical order (e.g., lists, telephone directory).
- ☐ 3.3.spi.10. recognize usage errors occurring within context (i.e., double negatives, troublesome words: to, too, two; their, there, they're).
- ☐ 3.3.spi.11. select the compound sentence that correctly combines two simple sentences.

WRITING

- ☐ 3.2.spi.1. complete a simple graphic organizer (e.g., webbing) to group ideas for writing.
- ☐ 3.2.spi.2 identify the purpose for writing (i.e., to entertain, to inform, to exhibit knowledge, to respond to a picture, story, or art).
- ☐ 3.2.spi.3. choose the most specific word to complete a simple sentence.
- ☐ 3.2.spi.4. rearrange events in sequential order.
- ☐ 3.2.spi.5. choose a topic sentence for a paragraph.
- ☐ 3.2.spi.6. select the best title for a text.
- ☐ 3.2.spi.7. rearrange sentences to form a sequential, coherent paragraph.
- ☐ 3.2.spi.8. identify unnecessary information in a paragraph.
- ☐ 3.2.spi.9. rearrange a story sequentially, with a logical beginning, middle, and end.
- ☐ 3.2.spi.10. choose a supporting sentence that best fits the context and flow of ideas in a paragraph.
- ☐ 3.2.spi.11. identify the audience for which a text is written.
- ☐ 3.2.spi.12. complete a graphic organizer (i.e., chart, graph, diagrams,) arranging information to be used in a writing sample.
- ☐ 3.2.spi.13. select the best way to combine sentences to provide syntactic variety within context.
- ☐ 3.2.spi.14. identify the most reliable source of information for preparing a report.

SCIENCE SPI's

LIFE SCIENCE: CELL STRUCTURE & FUNCTION

☐ 3.1.spi.1. identify the part that is missing from a specific plant or animal.
☐ 3.1.spi.2. identify the part that belongs to a specific plant or animal.
☐ 3.1.spi.3. Identify the function of specific plant and animal parts.

LIFE SCIENCE: INTERACTION BETWEEN LIVING THINGS AND THEIR ENVIRONMENT

☐ 3.2.spi.1. distinguish between living and non-living things in an illustration.
☐ 3.2.spi.2. select the plants and animals found in a specific environment.
☐ 3.2.spi.3. identify the sense used to collect specific information.
☐ 3.2.spi.4. identify the environment that has been impacted by pollutants.

LIFE SCIENCE: FOOD PRODUCTION AND ENERGY FOR LIFE

☐ 3.3.spi.1. identify the basic needs of plants and animals.
☐ 3.3.spi.2. Recognize that animals obtain their food by eating plants or other animals.
☐ 3.3.spi.3. Recognize that plants use sunlight, water and air for photosynthesis.

LIFE SCIENCE: HEREDITY & REPRODUCTION

☐ 3.4.spi.1. choose the diagram that depicts a parent with its offspring.
☐ 3.4.spi.2. select the illustration that shows an adult organism.
☐ 3.4.spi.3. select the illustration that shows how an organism changes as it matures.

LIFE SCIENCE: DIVERSITY & ADAPTATION AMONG LIVING THINGS

☐ 3.5.spi.1. identify groups of similar organisms (i.e., plants and animals).
☐ 3.5.spi.2. identify an organism that belongs in a specific environment.
☐ 3.5.spi.3. identify the characteristics that enable a specific plant and/or animal to survive in its environment.

LIFE SCIENCE: BIOLOGICAL CHANGE

☐ 3.6.spi.1. identify an example, other than a dinosaur, of an extinct organism.
☐ 3.6.spi.2. identify evidence used to determine that an organism previously existed.
☐ 3.6.spi.3. match the organism to the evidence for its former existence.

EARTH & SPACE SCIENCE: EARTH AND ITS PLACE IN THE UNIVERSE

☐ 3.7.spi.1. identify objects found in the day or nighttime sky.
☐ 3.7.spi.2. identify the approximate time of day from a picture of the sun's position in the sky.
☐ 3.7.spi.3. choose the appropriate tool for observing a specific distant object.
☐ 3.7.spi.4. identify the four basic phases of the moon.
☐ 3.7.spi.5. identify the components of the solar system (e.g. planets, moons).

EARTH & SPACE SCIENCE: ATMOSPHERIC CYCLES

☐ 3.8.spi.1. select appropriate clothing for a given weather condition.
☐ 3.8.spi.2. identify the season when given a description of weather, plants, and animals.
☐ 3.8.spi.3. match temperature, precipitation, wind speed and direction, and cloud conditions with different weather conditions.
☐ 3.8.spi.4. identify the appropriate tools to measure temperature and precipitation.
☐ 3.8.spi.5. match the cloud type to a specific kind of weather.

EARTH & SPACE SCIENCE: EARTH FEATURES

☐ 3.9.spi.1. identify the labelled part of a map or illustration as a continent, ocean, lake, river, mountain, or island.
☐ 3.9.spi.2. select the illustration that identifies a specific geological feature.
☐ 3.9.spi.3. identify a geological feature given specific information.

EARTH & SPACE SCIENCE: EARTH RESOURCES

☐ 3.10.spi.1. identify an object as natural or man-made.
☐ 3.10.spi.2. recognize the properties used to identify specific Earth materials.
☐ 3.10.spi.3. identify methods for conserving natural resources.

PHYSICAL SCIENCE: FORCES OF MOTION

☐ 3.11.spi.1. identify that an unbalanced force is needed to change the direction of an object.
☐ 3.11.spi.2. select an object that would be attracted by a magnet.
☐ 3.11.spi.3. identify how weights affect a balance scale.
☐ 3.11.spi.4. select how surface characteristics affect the movement of an object.

PHYSICAL SCIENCE: STRUCTURE & PROPERTIES OF MATTER

☐ 3.12.spi.1. select an object according to a particular property.
☐ 3.12.spi.2. order objects according to a specific property (e.g., longest to shortest, heaviest to lightest).
☐ 3.12.spi.3. identify appropriate tools for determining the weight or length of materials.
☐ 3.12.spi.4. identify an object when given its properties.

PHYSICAL SCIENCE: INTERACTIONS OF MATTER

☐ 3.13.spi.1. identify the effects of mixing two types of materials (e.g., salt and pepper).
☐ 3.13.spi.2 choose features associated with physical changes.
☐ 3.13.spi.3. identify methods for separating mixtures.

PHYSICAL SCIENCE: ENERGY

☐ 3.14.spi.1. identify the source of the Earth's heat and light energy.
☐ 3.14.spi.2. Identify how sounds are produced.
☐ 3.14.spi.3. identify the illustration that demonstrates the effects of the sun on various materials.

SOCIAL STUDIES SPI's

CULTURE

☐ 3.1.spi.1. recognize some of the major components of a culture (i.e., language, clothing, food, art, and music).
☐ 3.1.spi.2. determine similarities and differences in the ways different cultural groups address basic human needs (i.e., food, water, clothing, and shelter by interpreting pictures).
☐ 3.1.spi.3. differentiate the cultural population distribution in the United States using a bar graph.
☐ 3.1.spi.4. interpret a chart or map identifying major cultural groups of the world.

ECONOMICS

☐ 3.2.spi.1. distinguish the difference between a natural resource and finished product.
☐ 3.2.spi.2. interpret a map showing agricultural and industrial areas.
☐ 3.2.spi.3 distinguish between import and export.
☐ 3.2.spi.4 differentiate the difference between producer and a consumer using a picture.
☐ 3.2.spi.5. differentiate between money and barter economies.

GEOGRAPHY

☐ 3.3.spi.1. identify the major physical components of the world (i.e., oceans, equator, continents, and hemispheres).
☐ 3.3.spi.2. recognize and use a map key.
☐ 3.3.spi.3. find a specific location on a school or community map.
☐ 3.3.spi.4. use absolute and relative locations to identify places on a map (i.e., north, south, east, west, borders, lines of longitude and latitude, the equator, the north and south poles).
☐ 3.3.spi.5. identify basic components of earth's systems (i.e., landforms, water, climate and weather).
☐ 3.3.spi.6. utilize skills to locate a place using cardinal directions and symbols given an appropriate map with a key.
☐ 3.3.spi.7. determine the climate of a specific region of the world using a map.
☐ 3.3.spi.8. differentiate the distinguishing characteristics of ecosystems (i.e., deserts, grasslands, rainforests).
☐ 3.3.spi.9. recognize the identifying characteristics of certain geographic features (i.e., peninsula, islands, continents, mountains, rivers, deserts, oceans, and forests).

GOVERNANCE & CIVICS

☐ 3.4.spi.1. select from a set of visual representations a service provided by the government (i.e., parks, schools, and libraries).
☐ 3.4.spi.2. determine the representative acts of a good citizen (i.e., obeying speed limit, not littering, walking within the crosswalk).

HISTORY

☐ 3.5.spi.1. label historical events as past, present and future.
☐ 3.5.spi.2. use a timeline to determine the order of a historical sequence of events.
☐ 3.5.spi.3. read and interpret facts from a historical passage.

INDIVIDUALS, GROUPS, & INTERACTIONS

☐ 3.6.spi.1. classify needs and wants using pictures of common items (i.e., food, cleaning products, clothes, candy, makeup).
☐ 3.6.spi.2. distinguish between conflict and cooperation within group interactions as represented by pictures.
☐ 3.6.spi.3. recognize major global concerns (i.e., pollution, conservation of natural resources, global warming, destruction of rain forest).