California's COMMON CORE

Content Standards First Grade

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California's COMMON CORE Content Standards for ELA and Mathematics First Grade

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The following standards offer a focus for instruction each year and help ensure that students gain adequate exposure to a range of texts and tasks. Rigor is also infused through the requirement that students read increasingly complex texts through the grades. Students advancing through the grades are expected to meet each year's gradespecific standards and retain or further develop skills and understandings mastered in preceding grades.

LITERATURE

Key Ideas and Details

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1. With prompting and support, ask and answerquestions about key details in a text.	1. Ask and answer questions about key details in a text.	1. Ask and answer such questions as who, what,where, when, why, and how to demonstrate understanding of key details in a text.
2. With prompting and support, retell familiar stories, including key details.	2. Retell stories, including key details, and demonstrate understanding of their central message or lesson.	2. Recount stories, including fables and folktales from diverse cultures, and determine their central message, lesson, or moral.
3. With prompting and support, identify characters, settings, and major events in a story.	3. Describe characters in a story (e.g., their traits, motivations, or feelings) and explain how their actions contribute to the sequence of events.	3. Describe how characters in a story respond to major events and challenges.
	Cra	ft and Structure
4. Ask and answer questions about unknown words in a text. (See grade K Language standards 4-6 on pages 19-20 for additional expectations.)	4. Identify words and phrases in stories or poems that suggest feelings or appeal to the senses. (See grade 1 Language standards 4-6 on pages 19-20 for additional expectations.)	4. Describe how words and phrases (e.g., regular beats, alliteration, rhymes, repeated lines)supply rhythm and meaning in a story, poem, or song. (See grade 2 Language standards 4-6 on pages 19-20 for additional expectations.)
5. Recognize common types of texts (e.g., storybooks, poems, fantasy, realistic text).	5. Explain major differences between books that tell stories and books that give information, drawing on a wide reading of a range of text types.	5. Describe the overall structure of a story, including describing how the beginning introduces the story and the ending concludes the action.
6. With prompting and support, name the author and illustrator of a story and define the role of each in telling the story.	6. Identify who is telling the story at various points in a text.	6. Acknowledge differences in the points of view of characters, including by speaking in a different voice for each character when reading dialogue aloud.

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Integration of Knowledge and Ideas

7. With prompting and support, describe the relationship between illustrations and the story in which they appear (e.g., what moment in a story an illustration depicts).

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7. Use illustrations and details in a story to describe its characters, setting, or events.

8. (Not applicable to literature)

9. With prompting and support, compare and contrast the adventures and experiences of characters in familiar stories.

8. (Not applicable to literature)

9. Compare and contrast the adventures and experiences of characters in stories.

7. Use information gained from the illustrations and words in a print or digital text to demonstrate understanding of its characters, setting, or plot.

8. (Not applicable to literature)

9. Compare and contrast two or more versions of the same story (e.g., Cinderella stories) by different authors or from different cultures.

Range of Reading Level & Level of Text Complexity

10. Actively engage in group reading activities with purpose and understanding.

- a. Activate prior knowledge related to the information and events in texts.
- b. Use illustrations and context to make predictions about text.

10. With prompting and support, read prose and poetry of appropriate complexity for grade 1.

- a. Activate prior knowledge related to the information and events in a text.
- b. Confirm predictions about what will happen next in a text.

10. By the end of the year, read and comprehend literature, including stories and poetry, in the grades 2–3 text complexity band proficiently, with scaffolding as needed at the high end of the range.

INFORMATIONAL TEXT

Key Ideas and Details

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1. With prompting and support, ask and answer questions about key details in a text.	1. Ask and answer questions about key details in a text.	1. Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text.
2. With prompting and support, identify the main topic and retell key details of a text.	2. Identify the main topic and retell key details of a text.	2. Identify the main topic of a multiparagraph text as well as the focus of specific paragraphs within the text.
3. With prompting and support, describe the connection between two individuals, events, ideas, or pieces of information in a text.	3. Describe the connection between two individuals, events, ideas, or pieces of information in a text.	3. Describe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text.
	Cra	ft and Structure
4. With prompting and support, ask and answer questions about unknown words in a text. (See grade K Language standards 4-6 on pages 19-20 for additional expectations.)	4. Ask and answer questions to help determine or clarify the meaning of words and phrases in a text. (See grade 1 Language standards 4-6 on pages 19-20 for additional expectations.)	4. Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area. (See grade 2 Language standards 4-6 on pages 19-20 for additional expectations.)
5. Identify the front cover, back cover, and title page of a book.	5. Know and use various text structures (e.g., sequence) and text features (e.g., headings, tables of contents, glossaries, electronic menus, icons) to locate key facts or information in a text.	5. Know and use various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to locate key facts or information in a text efficiently.
6. Name the author and illustrator of a text and define the role of each in presenting the ideas or information in a text.	6. Distinguish between information provided by pictures or other illustrations and information provided by the words in a text.	6. Identify the main purpose of a text, including what the author wants to answer, explain, or describe.
In	tegration of Know	ledge and Ideas
7. With prompting and support, describe the relationship between illustrations and the text in which they appear (e.g., what person, place, thing, or idea in the text an illustration depicts).	7. Use the illustrations and details in a text to describe its key ideas.	7. Explain how specific images (e.g., a diagram showing how a machine works) contribute to and clarify a text.
8. With prompting and support, identify the reasons an author gives to support points in a text.	8. Identify the reasons an author gives to support points in a text.	8. Describe how reasons support specific points the author makes in a text.

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9. With prompting and support, identify basic similarities in and differences between two texts on the same topic (e.g., in illustrations, descriptions, or procedures).

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9. Identify basic similarities in and differences between two texts on the same topic (e.g., in illustrations, descriptions, or procedures).

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9. Compare and contrast the most important points presented by two texts on the same topic.

Range of Reading & Level of text complexity

10. Actively engage in group reading activities with purpose and understanding.

- a. Activate prior knowledge related to the information and events in texts.
- b. Use illustrations and context to make predictions about text.

10. With prompting and support, read informational texts appropriately complex for grade 1.

- a. Activate prior knowledge related to the information and events in a text.
- b. Confirm predictions about what will happen next in a text.

10. By the end of year, read and comprehend informational texts, including history/social studies, science, and technical texts, in the grades 2–3 text complexity band proficiently, with scaffolding as needed at the high end of the range.

These standards are directed toward fostering students' understanding and working knowledge of concepts of print, the alphabetic principle, and other basic conventions of the English writing system. These foundational skills are not an end in and of themselves; rather, they are necessary and important components of an effective, comprehensive reading program designed to develop proficient readers with the capacity to comprehend texts across a range of types and disciplines. Instruction should be differentiated: good readers will need much less practice with these concepts than struggling readers will. The point is to teach students what they need to learn and not what they already know—to discern when particular children or activities warrant more or less attention.

FOUNDATIONAL SKILLS

Print Concepts

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1. Demonstrate understanding of the organization and basic features of print.

- a. Follow words from left to right, top to bottom, and page by page.
- b. Recognize that spoken words are represented in written language by specific sequences of letters.
- c. Understand that words are separated by spaces in print.
- d. Recognize and name all upper- and lowercase letters of the alphabet.

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 Demonstrate understanding of the organization and basic features of print.
 a. Recognize the distinguishing features of a sentence (e.g., first

features of a sentence (e.g., first word, capitalization, ending punctuation).

Phonological Awareness

2. Demonstrate understanding of spoken words, syllables, and sounds (phonemes).

- a. Recognize and produce rhyming words.
- b. Count, pronounce, blend, and segment syllables in spoken words.
- c. Blend and segment onsets and rimes of single-syllable spoken words.
- d. Blend two to three phonemes into recognizable words.
- e. Isolate and pronounce the initial, medial vowel, and final sounds (phonemes) in three-phoneme (consonent-vowel-consonent, or CVC) words.* (This does not include CVCs ending with /l/, /r/, or /x/.)
- f. Add or substitute individual sounds (phonemes) in simple, one-syllable words to make new words.

2. Demonstrate understanding of spoken words, syllables, and sounds (phonemes).

- a. Distinguish long from short vowel sounds in spoken single-syllable words.
- b. Orally produce single-syllable words by blending sounds (phonemes), including consonant blends.
- c. Isolate and pronounce initial, medial vowel, and final sounds(phonemes) in spoken single-syllable words.
- d. Segment spoken single-syllable words into their complete sequence of individual sounds (phonemes).

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Phonics & Word Recognition

3. Know and apply grade-level phonics and word analysis skills in decoding words both in isolation and in text.

- a. Demonstrate basic knowledge of one-to-one letter-sound correspondences by producing the primary or many of the most frequent sound for each consonant.
- b. Associate the long and short sounds with common spellings (graphemes) for the five major vowels.*
- c. Read common high frequency words by sight (e.g., the, of, to, you, she, my, is, are, do, does).
- d. Distinguish between similarly spelled words by identifying the sounds of the letters that differ.

3. Know and apply grade-level phonics and word analysis skills in decoding words both in isolation and in text.

- a. Know the spelling-sound correspondences for common consonant digraphs.
- b. Decode regularly spelled one-syllable words.
- c. Know final -e and common vowel team conventions for representing long vowel sounds.
- d. Use knowledge that every syllable must have a vowel sound to determine the number of syllables in a printed word.
- e. Decode two-syllable words following basic patterns by breaking the words into syllables.
- f. Read words with inflectional endings.
- g. Recognize and read grade-appropriate irregularly spelled words.

3. Know and apply grade-level phonics and word analysis skills in decoding words both in isolation and in text.

- a. Distinguish long and short vowels when reading regularly spelled onesyllable words.
- b. Know spelling-sound correspondences for additional common vowel teams.
- c. Decode regularly spelled two-syllable words with long vowels.
- d. Decode words with common prefixes and suffixes.
- e. Identify words with inconsistent but common spelling-sound correspondences.
- f. Recognize and read grade-appropriate irregularly spelled words.

Fluency

4. Read emergent-reader texts with purpose and understanding.

4. Read with sufficient accuracy and fluency to support comprehension.

- a. Read on-level text with purpose and understanding.
- b. Read on-level text orally with accuracy, appropriate rate, and expression on successive readings.
- c. Use context to confirm or self-correct word recognition and understanding, rereading as necessary.

4. Read with sufficient accuracy and fluency to support comprehension.

- a. Read on-level text with purpose and understanding.
- b. Read on-level text orally with accuracy, appropriate rate, and expression on successive readings.
- c. Use context to confirm or self-correct word recognition and understanding, rereading as necessary.

WRITING STANDARDS

The following standards for K–5 offer a focus for instruction each year to help ensure that students gain adequate mastery of a range of skills and applications. Each year in their writing, students should demonstrate increasing sophistication in all aspects of language use, from vocabulary and syntax to the development and organization of ideas, and they should address increasingly demanding content and sources. Students advancing through the grades are expected to meet each year's grade-specific standards and retain or further develop skills and understandings mastered in preceding grades. The expected growth in student writing ability is reflected both in the standards themselves and in the collection of annotated student writing samples in Appendix C.

WRITING

Text Types & Purposes

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1. Use a combination of drawing, dictating, and writing to compose opinion pieces in which they tell a reader the topic or the name of the book they are writing about and state an opinion or preference about the topic or book (e.g., My favorite book is . . .).

2. Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.

3. Use a combination of drawing, dictating, and writing to narrate a single event or several loosely linked events, tell about the events in the order in which they occurred, and provide a reaction to what happened.

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1. Write opinion pieces in which they introduce the topic or name the book they are writing about, state an opinion, supply a reason for the opinion, and provide some sense of closure.

2. Write informative explanatory texts in which they name a topic, supply some facts about the topic, and provide some sense of closure.

3. Write narratives in which they recount two or more appropriately sequenced events, include some details regarding what happened, use temporal words to signal event order, and provide some sense of closure.

4. (Begins in grade 2)

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1. Write opinion pieces in which they introduce the topic or book they are writing about, state an opinion, supply reasons that support the opinion, use linking words (e.g., because, and, also) to connect opinion and reasons, and provide a concluding statement or section.

2. Write informative/explanatory texts in which they name a topic, supply some facts about the topic, and provide some sense of closure.

3. Write narratives in which they recount a wellelaborated event or short sequence of events, include details to describe actions, thoughts, and feelings, use temporal words to signal event order, and provide a sense of closure.

Production & Distribution of Writing

4. (Begins in grade 2)

5. With guidance and support from

suggestions from peers and add details to

adults, respond to questions and

strengthen writing as needed.

5. With guidance and support from adults, focus on

a topic, respond to questions and suggestions from peers, and add details to strengthen writing as needed. 4. With guidance and support from adults, produce writing in which the development and organization are appropriate to task and purpose. (Gradespecific expectations for writing types are defined in standards 1–3 above.)

5. With guidance and support from adults and peers, focus on a topic and strengthen writing as needed by revising and editing.

WRITING STANDARDS

6. With guidance and support from adults, explore a variety of digital tools to produce and publish writing, including in collaboration with peers.

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6. With guidance and support from adults, use a variety of digital tools to produce and publish writing, including in collaboration with peers.

6. With guidance and support from adults, use a variety of digital tools to produce and publish writing, including in collaboration with peers.

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Research to Build & Present Knowledge

7. Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them). 7. Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of instructions).

8. With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question. 8. With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question. 7. Participate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations).

8. Recall information from experiences or gather information from provided sources to answer a question.

Range of Writing

10. (Begins in grade 2)

10. (Begins in grade 2)

10. Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.

SPEAKING & LISTENING

The following standards offer a focus for instruction each year to help ensure that students gain adequate mastery of a range of skills and applications. Students advancing through the grades are expected to meet each year's grade-specific standards and retain or further develop skills and understandings mastered in preceding grades.

Κ 1ст 2ND 1. Participate in collaborative 1. Participate in collaborative 1. Participate in collaborative conversations with diverse partners about conversations with diverse partners about conversations with diverse partners about kindergarten topics and texts with peers grade 1 topics and texts with peers and grade 2 topics and texts with peers and and adults in small and larger groups. adults in small and larger groups. adults in small and larger groups. a. Follow agreed-upon rules for a. Follow agreed-upon rules for a. Follow agreed-upon rules for discussions (e.g., gaining the floor in discussions (e.g., listening to others discussions (e.g., listening to others and taking turns speaking about the with care, speaking one at a time respectful ways, listening to others topics and texts under discussion). about the topics and texts under with care, speaking one at a time b. Continue a conversation through discussion). about the topics and texts under multiple exchanges. b. Build on others' talk in conversations discussion). by responding to the comments of b. Build on others' talk in conversations others through multiple exchanges. by linking their comments to the c. Ask questions to clear up any remarks of others. confusion about the topics and texts c. Ask for clarification and further under discussion. explanation as needed about the topics and texts under discussion. 2. Confirm understanding of a text 2. Recount or describe key ideas or 2. Ask and answer questions about key read aloud or information presented orally details in a text read aloud or information details from a text read aloud or information or through other media by asking and presented orally or through other media. presented orally or through other media. answering questions about key details and a. Give, restate, and follow simple twoa. Give and follow three- and four-step oral directions. requesting clarification if something is not step directions. understood a. Understand and follow one- and twostep oral directions. 3. Ask and answer questions in order 3. Ask and answer questions about 3. Ask and answer questions about what a speaker says in order to gather what a speaker says in order to clarify

to seek help, get information, or clarify something that is not understood.

additional information or clarify something that is not understood. comprehension, gather additional information, or deepen understanding of a topic or issue.

Presentation of Knowledge & Ideas

4. Describe familiar people, places, things, and events and, with prompting and support, provide additional detail.

4. Describe people, places, things, and events with relevant details, expressing ideas and feelings clearly.

a. Memorize and recite poems, rhymes, and songs with expression.

4. Tell a story or recount an experience with appropriate facts and relevant, descriptive details, speaking audibly in coherent sentences.

a. Plan and deliver a narrative presentation that: recounts a wellelaborated event, includes details, reflects a logical sequence, and provides a conclusion.

SPEAKING & LISTENING

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5. Add drawings or other visual displays to descriptions as desired to provide additional detail.

6. Speak audibly and express thoughts, feelings, and ideas clearly.

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5. Add drawings or other visual displays to descriptions when appropriate to clarify ideas, thoughts, and feelings.

6. Produce complete sentences when appropriate to task and situation. (See grade 1 Language standards 1 and 3 on pages 18 and 19 for specific expectations.)

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5. Create audio recordings of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, and feelings.

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6. Produce complete sentences when appropriate to task and situation in order to provide requested detail or clarification. (See grade 2 Language standards 1 and 3 on pages 18 and 19 for specific expectations.)

LANGUAGE STANDARDS

The following standards for grades K–5 offer a focus for instruction each year to help ensure that students gain adequate mastery of a range of skills and applications. Students advancing through the grades are expected to meet each year's grade-specific standards and retain or further develop skills and understandings mastered in preceding grades. Beginning in grade 3, skills and understandings that are particularly likely to require continued attention in higher grades as they are applied to increasingly sophisticated writing and speaking are marked with an asterisk (*).

1sт 2ND Κ **Conventions of Standard English** 1. Demonstrate command of the 1. Demonstrate command of the 1. Demonstrate command of the conventions of standard English grammar conventions of standard English grammar conventions of standard English grammar and usage when writing or speaking. and usage when writing or speaking. and usage when writing or speaking. a. Create readable documents with a. Print many upper- and lowercase letters. a. Print all upper- and lowercase letters. b. Use frequently occurring nouns and legible print. b. Use common, proper, and possessive verbs. nouns. b. Use collective nouns (e.g., group). c. Form regular plural nouns orally by c. Use singular and plural nouns with c. Form and use frequently occurring adding /s/ or /es/ (e.g., dog, dogs; wish, matching verbs in basic sentences irregular pluralnouns (e.g., feet, (e.g., He hops; We hop). children, teeth, mice, fish). wishes) d. Understand and use question words d. Use personal (subject, object), d. Use reflexive pronouns (e.g., myself, (interrogatives) (e.g., who, what, where, possessive, and indefinite pronouns ourselves). when, why, how). (e.g., I, me, my; they, them, their, e. Form and use the past tense of e. Use the most frequently occurring anyone, everything). frequently occurring irregular verbs prepositions (e.g., to, from, in, out, on, e. Use verbs to convey a sense of past, (e.g., sat, hid, told). off, for, of, by, with). present, and future (e.g., Yesterday f. Use adjectives and adverbs, and f. Produce and expand complete I walked home; Today I walk home; choose between them depending on sentences in shared language activities. Tomorrow I will walk home). what is to be modified. f. Use frequently occurring adjectives. g. Produce, expand, and rearrange complete simpleand compound g. Use frequently occurring conjunctions (e.g., and, but, or, so, because). sentences (e.g., The boy watched the h. Use determiners (e.g., articles, movie; The little boy watched the demonstratives). movie; The action movie was watched i. Use frequently occurring prepositions by the little boy). (e.g., during, beyond, toward). j. Produce and expand complete simple and compound declarative,

interrogative, imperative, and exclamatory sentences in response to

prompts.

LANGUAGE STANDARDS

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2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

- a. Capitalize the first word in a sentence and the pronoun I.
- b. Recognize and name end punctuation.
- c. Write a letter or letters for most consonant and short-vowel sounds (phonemes).
- d. Spell simple words phonetically, drawing on knowledge of sound-letter relationships.

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2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

- a. Capitalize dates and names of people.
- b. Use end punctuation for sentences.
- c. Use commas in dates and to separate single words in a series.
- d. Use conventional spelling for words with common spelling patterns and for frequently occurring irregular words.
- e. Spell untaught words phonetically, drawing onphonemic awareness and spelling conventions

3. (Begins in grade 2)

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2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

- a. Capitalize holidays, product names, and geographic names.
- b. Use commas in greetings and closings of letters.
- c. Use an apostrophe to form contractions and frequently occurring possessives.
- d. Generalize learned spelling patterns when writingwords (e.g., cage badge; boy boil).
- e. Consult reference materials, including beginning dictionaries, as needed to check and correctspellings.

Knowledge of Language

4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on kindergarten reading and content.

3. (Begins in grade 2)

- a. Identify new meanings for familiar words and apply them accurately (e.g., knowing duck is a bird and learning the verb to duck).
- b. Use the most frequently occurring inflections and affixes (e.g., -ed, -s, re-, un-, pre-, -ful,-less) as a clue to the meaning of an unknown word.

4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 1 reading and content, choosing flexibly from an array of strategies.

- a. Use sentence-level context as a clue to the meaning of a word or phrase.
- b. Use frequently occurring affixes as a clue to the meaning of a word.
- c. Identify frequently occurring root words (e.g., look) and their inflectional forms (e.g., looks, looked, looking).

3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.

a. Compare formal and informal uses of English.

4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 2 reading and content, choosing flexibly from an array of strategies.

- a. Use sentence-level context as a clue to the meaning of a word or phrase.
- b. Determine the meaning of the new word formed when a known prefix is added to a known word (e.g., happy/ unhappy, tell/retell).
- c. Use a known root word as a clue to the meaning of an unknown word with the same root (e.g., addition, additional).
- d. Use knowledge of the meaning of individual words to predict the meaning of compound words (e.g., birdhouse, lighthouse, housefly; bookshelf, notebook, bookmark).
- e. Use glossaries and beginning dictionaries, both print and digital, to determine or clarifythe meaning of words and phrases in all content areas.

LANGUAGE STANDARDS

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Vocabulary Acquisition and Use

5. With guidance and support from adults, explore word relationships and nuances in word meanings.

a. Sort common objects into categories (e.g., shapes, foods) to gain a sense of the concepts the categories represent.

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- b. Demonstrate understanding of frequently occurring verbs and adjectives by relating them to their opposites (antonyms).
- c. Identify real-life connections between words and their use (e.g., note places at school that are colorful).
- d. Distinguish shades of meaning among verbs describing the samegeneral action (e.g., walk, march, strut, prance) by acting out the meanings.

6. Use words and phrases acquired through conversations, reading and being read to, and responding to texts.

5. With guidance and support from adults, demonstrate understanding of word relationships and nuances in word meanings.

- a. Sort words into categories (e.g., colors, clothing) to gain a sense of the concepts the categories represent.
- b. Define words by category and by one or more key attributes (e.g., a duck is a bird thatswims; a tiger is a large cat with stripes).
- c. Identify real-life connections between words and their use (e.g., note places at home that are cozy).
- d. Distinguish shades of meaning among verbs differing in manner (e.g., look, peek, glance, stare, glare, scowl) and adjectives differing in intensity (e.g., large, gigantic) by defining or choosing them or by acting out the meanings.

6. Use words and phrases acquired through conversations, reading and being read to, and responding to texts, including using frequently occurring conjunctions to signal simple relationships (e.g., I named my hamster Nibblet because she nibbles too much because she likes that). 5. Demonstrate understanding of word relationships and nuances in word meanings.

- a. Identify real-life connections between words and their use (e.g., describe foods that are spicy or juicy).
- b. Distinguish shades of meaning among closely related verbs (e.g., toss, throw, hurl) and closely related adjectives (e.g., thin, slender, skinny, scrawny)

6. Use words and phrases acquired through conversations, reading and being read to, and responding to texts, including using adjectives and adverbs to describe (e.g., When other kids are happy that makes me happy).

LANGUAGE PROGRESSIVE SKILLS, BY GRADE

The following skills, marked with an asterisk (*) in Language standards 1-3, are particularly likely to require continued attention in higher grades as they are applied to increasingly sophisticated writing and speaking.

				Grad	e(s)			
Standard	м	4	S	9	7	80	9-10	11-12
L.3.1f. Ensure subject-verb and pronoun-antecedent agreement.								
L.3.3a. Choose words and phrases for effect.				Π				
L.4.1f. Produce complete sentences, recognizing and correcting inappropriate fragments and run-ons.								
L.4.1g. Correctly use frequently confused words (e.g., to/too/two; there/their).								
L.4.3a. Choose words and phrases to convey ideas precisely.								
L.4.3b. Choose punctuation for effect.								
L.5.1d. Recognize and correct inappropriate shifts in verb tense.		T						
L.5.2a. Use punctuation to separate items in a series."								
L.6.1c. Recognize and correct inappropriate shifts in pronoun number and person.								
L.6.1d. Recognize and correct vague pronouns (i.e., ones with unclear or ambiguous antecedents).								
L.6.1e. Recognize variations from standard English in their own and others' writing and speaking, and identify and use strategies to improve expression in conventional language.								
L.6.2a. Use punctuation (commas, parentheses, dashes) to set off nonrestrictive/parenthetical elements.								
L.6.3a. Vary sentence patterns for meaning, reader/listener interest, and style. ⁴				T				
L.6.3b. Maintain consistency in style and tone.								
L.7.1c. Place phrases and clauses within a sentence, recognizing and correcting misplaced and dangling modifiers.								
L.7.3a. Choose language that expresses ideas precisely and concisely, recognizing and eliminating wordiness and redundancy.								
L.8.1d. Recognize and correct inappropriate shifts in verb voice and mood.								
L.9-10.1a. Use parallel structure.								

Stories Drama Poetry Poetry Literary Nonfiction Includes children's adventure Includes staged dialogue and brief Includes nursery rhymes and the Includes biographies and autobiographies; books about stories, folktales, legends,	knowledge demands dability measures and other scores of text complexity der variables (such as motivation, knowledge, and experiences) task variables (such as purpose and the complexity generated by ask assigned and the questions posed) omplexity and how it is measured is contained in Appendix A elected from a broad range of cultures and periods. elected from a broad range of cultures and periods. Informational Text Literary Nonfiction and the Includes biographies and autobiographies; books about history, social studies, science, and the arts; technical	ation of the text: Leve and H uation of the text: Reac to text and task: Reac and t the ta the ta th	Quantitative eval Matching reader Matching reader Matching reader Mote: More details Note: More details Sr K-5 Sr K-5 Sr K-5 Sr K-6 Sr K-7 Sr K-6 Sr K-7 Sr K-7	Reader and Tas Reader and Tas Rudents in grades K-5 apply the Students in grades K-5 apply the Stories folktales, legends,
	poem texts, including directions, forms, and information displayed in graphs, charts, or maps; and digital	limerick, and free verse p		fables, fantasy, realistic fiction, and myth
Includes children's adventure Includes staged dialogue and brief Includes nursery rhymes and the Includes biographies and autobiographies; books about	and the Includes biographies and autobiographies; books about	Includes nursery rhymes	Includes staged dialogue and brief	Includes children's adventure
Stories Drama Poetry Literary Nonfiction	Literary Nonfiction	Poetry	Drama	Stories
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Range of Text Types for K-5 Students in grades K-5 apply the Reading standards to the following range of text types, with texts selected from a broad range of cultures and periods. Literature Literature Information a broad range of cultures and periods.	implexity and how it is measured is contained in Appendix A	ed information on text co	Note: More details	Reader and Tas
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Matching reader to text and task: Reader variables (such as purpose and experiences) and task variables (such as purpose and the complexity generated by the task assigned and the questions posed) Note: More detailed information on text complexity and how it is measured is contained in Appendix A Range of Text Types for K-5 Such as purpose of text types, with texts selected from a broad range of cultures and precisions Indents in grades K-5 apply the Reading standards to the following range of text types, with texts selected from a broad range of cultures and periods.	dability measures and other scores of text complexity	uation of the text: Reac	Quantitative eval	
Quantitative evaluation of the text: Readability measures and other scores of text complexity Matching reader to text and task: Reader variables (such as motivation, knowledge, and experiences) and task variables (such as purpose and the complexity generated b), the task assigned and the questions posed) Note: More detailed information on text complexity and how it is measured is contained in Appendix A totange of Text Types for K-5 Range of Text Types for K-5 Standards to the following range of text types, with texts selected from a broad range of cultures and periods. Identified Information	knowledge demands	ation of the text: Leve and H		

		<u>-</u>	ormational Texts: Literary Nonfiction and Historical, Scientific, and Technical Tex
-	Over in the Meadow by John Langstaff (traditional) (c1800)*	•	<i>My Five Senses</i> by Aliki (1962)**
-	A Boy, a Dog, and a Frog by Mercer Mayer (1967)	•	Truck by Donald Crews (1980)
-	Pancakes for Breakfast by Tomie DePaola (1978)	•	I Read Signs by Tana Hoban (1987)
•	A Story, A Story by Gail E. Haley (1970)*	•	What Do You Do With a Tail Like This? by Steve Jenkins and Robin Page (2003
•	Kitten's First Full Moon by Kevin Henkes (2004)*	•	Amazing Whales! by Sarah L. Thomson (2005)*
-	"Mix a Pancake" by Christina G. Rossetti (1893)**	•	A Tree Is a Plant by Clyde Robert Bulla, illustrated by Stacey Schuett (1960)**
•	<i>Mr. Popper's Penguins</i> by Richard Atwater (1938)*	•	Startish by Edith Thacher Hurd (1962)
•	Little Bear by Else Holmelund Minarik, illustrated by Maurice	•	Follow the Water from Brook to Ocean by Arthur Dorros (1991)**
	Sendak (1957)**	•	From Seed to Pumpkin by Wendy Pfeffer, illustrated by James Graham Hale
•	Frog and Toad Together by Arnold Lobel (1971)**		(2004)*
•	<i>Hil Fly Guy</i> by Tedd Arnold (2006)	•	How People Learned to Fly by Fran Hodgkins and True Kelley (2007)*
-	"Who Has Seen the Wind?" by Christina G. Rossetti (1893)	•	A Medieval Feast by Aliki (1983)
•	Charlotte's Web by E. B. White (1952)*	•	From Seed to Plant by Gail Gibbons (1991)
•	Sarah, Plain and Tall by Patricia MacLachlan (1985)	•	The Story of Ruby Bridges by Robert Coles (1995)*
•	Tops and Bottoms by Janet Stevens (1995)	•	A Drop of Water: A Book of Science and Wonder by Walter Wick (1997)
-	Poppleton in Winter by Cynthia Rylant, illustrated by Mark Teague (2001)	•	Moonshot: The Flight of Apollo 11 by Brian Floca (2009)
	Alice's Adventures in Wonderland by Lewis Carroll (1865)	•	Discovering Mars: The Amazing Story of the Red Planet by Melvin Berger (1995
•	"Casey at the Bat" by Ernest Lawrence Thayer (1888)	•	Hurricanes: Earth's Mightiest Storms by Patricia Lauber (1996)
•	The Black Stallion by Walter Farley (1941)	•	A History of US by Joy Hakim (2005)
•	"Zlateh the Goat" by Isaac Bashevis Singer (1984)	•	Horses by Seymour Simon (2006)
-	Where the Mountain Meets the Moon by Grace Lin (2009)	•	Quest for the Tree Kangaroo: An Expedition to the Cloud Forest of New Guinea Sy Montgomery (2006)

TEXT ILLUSTRATING THE COMPLEXITY, QUALITY, AND RANGE OF STUDENT READING K-5

Many of the titles listed above are meant to supplement carefully structured independent reading with books to read along with a teacher or that are read aloud to students to build knowledge and cultivate a joy in reading.

-S K-5	grade that, over time, will nd topics or themes that es on a single topic that is in early grade levels se topics. Children in the ever, children in the early hat are read aloud, orally at follows is one example rs can infuse the English he arts. Having students standing of increasingly	4-5	 Circulatory system The Heart by Seymour Simon (2006) The Heart and Circulation by Carol Ballard (2005) The Circulatory System by Kristin Petrie (2007) The Amazing Circulatory System by John Burstein (2009) Respiratory system The Respiratory System by Susan Glass (2004) The Respiratory System by
-ANGUAGE ART	eces of a puzzle in each g leed to be selected arou adequate number of titl ed about particular topic er understanding of the on them in writing. Howe ise to the written texts th andards. Tary school grades. Whe rs and classroom teache al studies, science, and t ents' reading and under	2-3	 Digestive and excretory systems What Happens to a Hamburger by Paul Showers (1985) The Digestive System by Christine Taylor-Butler (2008) The Digestive System by Rebecca L. Johnson (2006) The Digestive System by Kristin Petrie (2007) Taking care of your body: Healthy eating and nutrition Good Enough to Eat by Lizzy Rockwell (1999) Showdown at the Food Pyramid by Rex Barron (2004)
KOSS GRADES: Y IN ENGLISH L	ving children various pie d across grade levels—n /el, there should be an a dge children have learne ure an increasingly deep ependently and reflect o s with an adult in respon nner called for by the St now curriculum designe tow curriculum designe cabulary in history/socia ary foundation for stud	1	Introduction to the systems of the human body and associated body parts • Under Your Skin: Your Amazing Body by Mick Manning (2007) • Me and My Amazing Body by Joan Sweeney (1999) • The Human Body by Gallimard Jeunesse (2007) • The Busy Body Book by Lizzy Bockwell (2008) • First Encyclopedia of the Human Body by Fiona Chandler (2004) Taking care of your body: Germs, diseases, and preventing illness
RADE AND ACF YSTEMATICALL	h language arts is like gi l level, texts—within an dents. Within a grade lev ined period. The knowle uent grade levels to ensi d to read these texts ind structured conversation al texts should begin at rade levels to illustrate h tent knowledge and vo des helps lay the necess	×	 The five senses and associated body parts My Five Senses by Aliki (1989) Hearing by Maria Rius (1985) Sight by Maria Rius (1985) Sight by Maria Rius (1985) Taste by Maria Rius (1985) Touch by Maria Rius (1985) Touch by Maria Rius (1985) Touch by Maria Rius (1985) My Amazing Body: A First Look at Health & Fitness by Pat Thomas (2001)
IC WITHIN A G	systematically in Englis urricular or instructiona knowledge base of stud dy that topic for a susta nd developed in subseq ill generally be expected ould participate in rich, as well as analyzing and ing complex information ing complex information tonfiction titles across g ch, age-appropriate con l-alouds in the early gra in subsequent grades.	Exemplar Texts on a Topic Across Grades	The Human Body Students can begin learning about the human body starting in kindergarten and then review and extend their learning during each subsequent grade.
STAYING ON TOP HOW TO BUILD K	Building knowledge form one big picture. At a c systematically develop the would allow children to stu should then be expanded a upper elementary grades w grades (particularly K–2) sh comparing and contrasting Preparation for read that uses domain-specific n language arts block with ri listen to informational read complex texts on their own		

N I	The five senses and associated	Introduction to the systems of the	Digestive and excretory systems	Circulatory system
	body parts	human body and associated body	 What Happens to a Hamburger 	The Heart by Seymour Simon
egin learning	My Five Senses by Aliki (1989)	parts	by Paul Showers (1985)	(2006)
ergarten	Hearing by Maria Rius (1985)	 Under Your Skin: Your Amazing Body by Mick Manning (2007) 	The Digestive System by Christian Trubor Distance 200000	The Heart and Circulation by
and extend	 Sight by Maria Rius (1985) 	· Me and My Amazing Body by		
de.	Smell by Maria Rius (1985)	Joan Sweeney (1999)	 The Digestive System by Rebecca L. Johnson (2006) 	 The Circulatory System by Kristin Petrie (2007)
	 Taste by Maria Rius (1985) 	The Human Body by Gallimard	The Diaestive System by Kristin	The Amazing Circulatory System
	Touch by Maria Rius (1985)	Jeunesse (2007)	Petrie (2007)	by John Burstein (2009)
	Taking care of your body:	 The Busy Body Book by Lizzy Rockwell (2008) 	Taking care of your body:	Respiratory system
	Overview (hygiene, diet, exercise,	Eirst Encyclonadia of the	Healthy eating and nutrition	The Lungs by Seymour Simon
	(heat	Human Body by Fiona Chandler	 Good Enough to Eat by Lizzy 	(2007)
	My Amazing Body: A First	(2004)	Rockwell (1999)	The Respiratory System by
	LOOK at Tealth & Filhess by Pal Thomas (2001)	Taking care of your body: Germs	 Showdown at the Food Pyramid 	Susan Glass (2004)
		diseases, and preventing illness	by Rex Barron (2004)	The Respiratory System by
	Get Up and Go! by Nancy Carlson (2008)	Germs Make Me Sick by Marilyn	Muscular, skeletal, and nervous	Kristin Petrie (2007)
		Berger (1995)	systems	The Remarkable Respiratory
		Tinv I ife on Your Body by	The Mighty Muscular and	System by John Burstein (2009)
	Sleep by Paul Showers (1997)	Christine Taylor-Butler (2005)	<i>Skeletal Systems</i> Crabtree Publishina (2009)	Endocrine system
	Fuel the Body by Doering Tourville (2008)	Germ Stories by Arthur Kornberg (2007)	Muscles by Seymour Simon (1998)	The Endocrine System by Rebecca Olien (2006)
		All About Scabs by GenichiroYagu (1998)	Bones by Seymour Simon (1998)	The Exciting Endocrine System by John Burstein (2009)
			The Astounding Nervous System Crabtree Publishing (2009)	
			The Nervous System by Joelle Riley (2004)	

Introduction

Toward greater focus and coherence

Mathematics experiences in early childhood settings should concentrate on (1) number (which includes whole number, operations, and relations) and (2) geometry, spatial relations, and measurement, with more mathematics learning time devoted to number than to other topics. Mathematical process goals should be integrated in these content areas.

-National Research Council, 2009

The composite standards [of Hong Kong, Korea and Singapore] have a number of features that can inform an international benchmarking process for the development of K–6 mathematics standards in the U.S. First, the composite standards concentrate the early learning of mathematics on the number, measurement, and geometry strands with less emphasis on data analysis and little exposure to algebra. The Hong Kong standards for grades 1–3 devote approximately half the targeted time to numbers and almost all the time remaining to geometry and measurement.

- Ginsburg, Leinwand and Decker, 2009

Because the mathematics concepts in [U.S.] textbooks are often weak, the presentation becomes more mechanical than is ideal. We looked at both traditional and non-traditional textbooks used in the US and found this conceptual weakness in both. — Ginsburg et al., 2005

There are many ways to organize curricula. The challenge, now rarely met, is to avoid those that distort mathematics and turn off students.

— Steen, 2007

For over a decade, research studies of mathematics education in high-performing countries have pointed to the conclusion that the mathematics curriculum in the United States must become substantially more focused and coherent in order to improve mathematics achievement in this country. To deliver on the promise of common standards, the standards must address the problem of a curriculum that is "a mile wide and an inch deep." These Standards are a substantial answer to that challenge.

It is important to recognize that "fewer standards" are no substitute for focused standards. Achieving "fewer standards" would be easy to do by resorting to broad, general statements. Instead, these Standards aim for clarity and specificity.

Assessing the coherence of a set of standards is more difficult than assessing their focus. William Schmidt and Richard Houang (2002) have said that content standards and curricula are coherent if they are:

articulated over time as a sequence of topics and performances that are logical and reflect, where appropriate, the sequential or hierarchical nature of the disciplinary content from which the subject matter derives. That is, what and how students are taught should reflect not only the topics that fall within a certain academic discipline, **but also the key ideas** that determine how knowledge is organized and generated within that discipline. This implies that "to be coherent," a set of content standards must evolve from particulars (e.g., the meaning and operations of whole numbers, including simple math facts and routine computational procedures associated with whole numbers and fractions) to deeper structures inherent in the discipline. These deeper structures then serve as a means for connecting the particulars (such as an understanding of the rational number system and its properties). (emphasis added)

These Standards endeavor to follow such a design, not only by stressing conceptual understanding of key ideas, but also by continually returning to organizing principles such as place value or the laws of arithmetic to structure those ideas.

In addition, the "sequence of topics and performances" that is outlined in a body of mathematics standards must also respect what is known about how students learn. As Confrey (2007) points out, developing "sequenced obstacles and challenges for students... absent the insights about meaning that derive from careful study of learning, would be unfortunate and unwise." In recognition of this, the development of these Standards began with research-based learning progressions detailing what is known today about how students' mathematical knowledge, skill, and understanding develop over time.

Understanding mathematics

These Standards define what students should understand and be able to do in their study of mathematics. Asking a student to understand something means asking a teacher to assess whether the student has understood it. But what does mathematical understanding look like? One hallmark of mathematical understanding is the ability to justify, in a way appropriate to the student's mathematical maturity, why a particular mathematical statement is true or where a mathematical rule comes from. There is a world of difference between a student who can summon a mnemonic device to expand a product such as (a + b)(x + y) and a student who can explain where the mnemonic comes from. The student who can explain the rule understands the mathematics, and may have a better chance to succeed at a less familiar task such as expanding (a + b + c)(x + y). Mathematical understanding and procedural skill are equally important, and both are assessable using mathematical tasks of sufficient richness.

The Standards set grade-specific standards but do not define the intervention methods or materials necessary to support students who are well below or well above grade-level expectations. It is also beyond the scope of the Standards to define the full range of supports appropriate for English language learners and for students with special needs. At the same time, all students must have the opportunity to learn and meet the same high standards if they are to access the knowledge and skills necessary in their post-school lives. The Standards should be read as allowing for the widest possible range of students to participate fully from the outset, along with appropriate accommodations to ensure maximum participaton of students with special education needs. For example, for students with disabilities reading should allow for use of Braille, screen reader technology, or other assistive devices, while writing should include the use of a scribe, computer, or speech-to-text technology. In a similar vein, speaking and listening should be interpreted broadly to include sign language. No set of grade-specific standards can fully reflect the great variety in abilities, needs, learning rates, and achievement levels of students in any given classroom. However, the Standards do provide clear signposts along the way to the goal of college and career readiness for all students.

K	1	2	3	4	5	6	7	8	HS
Counting & Cardinality									
	Number	& Operati	ons Base T	en		Ratios & P Relatio	roportional onships		Number & Quantity
Number & Operations Fractions						The Number System			& Quantity
Expressions Operations & Equations						Algebra			
	& 1	Algebraic 1	[hinking					Functions	Functions
				Geometry					Geometry
	Me	easurement	& Data			Stati	stics & Proba	bility	Statistics & Probability

Findell & Foughty (2011)

College and Career-Readiness through the Common Core State Standards for Mathematics

Grade 1 - Overview

In Grade 1, instructional time should focus on four critical areas: (1) developing understanding of addition, subtraction, and strategies for addition and subtraction within 20; (2) developing understanding of whole number relationships and place value, including grouping in tens and ones; (3) developing understanding of linear measurement and measuring lengths as iterating length units; and (4) reasoning about attributes of, and composing and decomposing geometric shapes.

- 1. Students develop strategies for adding and subtracting whole numbers based on their prior work with small numbers. They use a variety of models, including discrete objects and length-based models (e.g., cubes connected to form lengths), to model add-to, take-from, put-together, take-apart, and compare situations to develop meaning for the operations of addition and subtraction, and to develop strategies to solve arithmetic problems with these operations. Students understand connections between counting and addition and subtraction (e.g., adding two is the same as counting on two). They use properties of addition to add whole numbers and to create and use increasingly sophisticated strategies based on these properties (e.g., "making tens") to solve addition and subtraction problems within 20. By comparing a variety of solution strategies, children build their understanding of the relationship between addition and subtraction.
- 2. Students develop, discuss, and use efficient, accurate, and generalizable methods to add within 100 and subtract multiples of 10. They compare whole numbers (at least to 100) to develop understanding of and solve problems involving their relative sizes. They think of whole numbers between 10 and 100 in terms of tens and ones (especially recognizing the numbers 11 to 19 as composed of a ten and some ones). Through activities that build number sense, they understand the order of the counting numbers and their relative magnitudes.
- 3. Students develop an understanding of the meaning and processes of measurement, including underlying concepts such as iterating (the mental activity of building up the length of an object with equal-sized units) and the transitivity principle for indirect measurement.1
- 4. Students compose and decompose plane or solid figures (e.g., put two triangles together to make a quadrilateral) and build understanding of part-whole relationships as well as the properties of the original and composite shapes. As they combine shapes, they recognize them from different perspectives and orientations, describe their geometric attributes, and determine how they are alike and different, to develop the background for measurement and for initial understandings of properties such as congruence and symmetry.

Operations and Algebraic Thinking

REPRESENT AND SOLVE PROBLEMS INVOLVING MULTIPLICATION AND DIVISION.

- Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.
 Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.
- 3. Apply properties of operations as strategies to add and subtract. 3 Examples: If 8 + 3 = 11 is known, then 3 + 8 = 11 is also known. (Commutative property of addition.) To add 2 + 6 + 4, the second two numbers can be added to make a ten, so 2 + 6 + 4 = 2 + 10 = 12. (Associative property of addition.)
- 4. Understand subtraction as an unknown-addend problem. For example, subtract 10 8 by finding the number that makes 10 when added to 8.
- 5. Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).
- 6. Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., 8 + 6 = 8 + 2 + 4 = 10 + 4 = 14); decomposing a number leading to a ten (e.g., 13 4 = 13 3 1 = 10 1 = 9); using the relationship between addition and subtraction (e.g., knowing that 8 + 4 = 12, one knows 12 8 = 4); and creating equivalent but easier or known sums (e.g., adding 6 + 7 by creating the known equivalent 6 + 6 + 1 = 12 + 1 = 13)
- 7. Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false? 6 = 6, 7 = 8 - 1, 5 + 2 = 2 + 5, 4 + 1 = 5 + 2.
- 7.1. Write and solve number sentances from problem situations that express relationships involving addition and subtraction within 20.
- 8. Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations 8 + ? = 11, 5 = ? 3, 6 + 6 = ?.

Number and Operations in Base Ten

SE PLACE VALUE UNDERSTANDING AND PROPERTIES OF OPERATIONS TO PERFORM MULTI-DIGIT ARITHMETIC.

- 1. Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.
- 2. Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases:
 - a. 10 can be thought of as a bundle of ten ones called a "ten."
 - b. The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.
 - c. The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).
- 3. Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.
- 4. Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.
- 5. Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.
- 6. Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

Measurement and Data

- 1. Order three objects by length; compare the lengths of two objects indirectly by using a third object.
- 2. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.
- 3. Tell and write time in hours and half-hours using analog and digital clocks.
- 3.1. Relate to time and events (e.g., before/after, shorter/longer)
- 4. Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.
- 4.1. Describe, extend, and explain ways to get to the next element in simple repeating patterns (e.g., rhythmic, numeric, color, and shape).

Geometry

REASON WITH SHAPES AND THEIR ATTRIBUTES.

- 1. Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.
- 2. Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quartercircles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.
- 3. Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.