



Main Criteria: California Content Standards

Secondary Criteria: LEGO® Education BricQ Motion Prime, LEGO® Education SPIKE™ Prime

Subjects: Language Arts, Mathematics

Grades: 6, 7, 8

Correlation Options: Show Correlated

California Content Standards

Language Arts

Grade: 6 - Adopted: 2013

CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.R.	College and Career Readiness Anchor Standards for Reading
PERFORMANCE STANDARD / MODE		Craft and Structure
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.R.4	Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone. LEGO® Education SPIKE™ Prime Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.W.	College and Career Readiness Anchor Standards for Writing
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.1	Write arguments to support claims in an analysis of substantive topics or texts using valid reasoning and relevant and sufficient evidence. LEGO® Education SPIKE™ Prime Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Extra Resources: Ideas, the LEGO way!
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.2	Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content. LEGO® Education SPIKE™ Prime Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.3	Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details and well-structured event sequences. LEGO® Education SPIKE™ Prime Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.W.	College and Career Readiness Anchor Standards for Writing
PERFORMANCE STANDARD / MODE		Production and Distribution of Writing

EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.5	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.W.	College and Career Readiness Anchor Standards for Writing
PERFORMANCE STANDARD / MODE		Research to Build and Present Knowledge
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.7	Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.W.	College and Career Readiness Anchor Standards for Writing
PERFORMANCE STANDARD / MODE		Range of Writing
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.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 tasks, purposes, and audiences. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.SL.	College and Career Readiness Anchor Standards for Speaking and Listening
PERFORMANCE STANDARD / MODE		Comprehension and Collaboration
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.1	Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race <u>LEGO® Education BricQ Motion Prime</u> Gymnast
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.2	Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally. <u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Broken
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.SL.	College and Career Readiness Anchor Standards for Speaking and Listening
PERFORMANCE STANDARD / MODE		Presentation of Knowledge and Ideas

EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.4	Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 3: Reacting to Lines Extra Resources: Goal! Extra Resources: What is this? Invention Squad: Design for Someone Invention Squad: Super Cleanup Life Hacks: Repeat 5 Times Life Hacks: The Coach Training Trackers: Stretch with Data <u>LEGO® Education BricQ Motion Prime</u> Free Kick Land Yacht Pass the Ball Ski Slope Strike the Ball
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.5	Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Ideas, the LEGO way! Extra Resources: What is this? Kickstart A Business: Automate It! Life Hacks: Repeat 5 Times Training Trackers: Stretch with Data
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.6	Adapt speech to a variety of contexts and communicative tasks, demonstrating command of formal English when indicated or appropriate. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.L.	College and Career Readiness Anchor Standards for Language
PERFORMANCE STANDARD / MODE		Conventions of Standard English
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.L.	College and Career Readiness Anchor Standards for Language
PERFORMANCE STANDARD / MODE		Knowledge of Language
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.3	Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.L.	College and Career Readiness Anchor Standards for Language
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use

EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.4	Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials, as appropriate. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.5	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.6	Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when encountering an unknown term important to comprehension or expression. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.RL.6.	Reading Standards for Literature
PERFORMANCE STANDARD / MODE		Craft and Structure
EXPECTATION / SUBSTRAND	RL.6.4.	Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings; analyze the impact of a specific word choice on meaning and tone. (See grade 6 Language standards 4–6 for additional expectations.) CA <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.RI.6.	Reading Standards for Informational Text
PERFORMANCE STANDARD / MODE		Craft and Structure
EXPECTATION / SUBSTRAND	RI.6.4.	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings. (See grade 6 Language standards 4–6 for additional expectations.) CA <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.6.	Writing Standards
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	W.6.1.	Write arguments to support claims with clear reasons and relevant evidence.
FOUNDATION / PROFICIENCY LEVEL	W.6.1.a.	Introduce claim(s) and organize the reasons and evidence clearly. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Extra Resources: Ideas, the LEGO way!
FOUNDATION / PROFICIENCY LEVEL	W.6.1.c.	Use words, phrases, and clauses to clarify the relationships among claim(s) and reasons. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe

CONTENT STANDARD / DOMAIN / PART	CA.CC.W.6.	Writing Standards
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	W.6.2.	Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.
FOUNDATION / PROFICIENCY LEVEL	W.6.2.a.	Introduce a topic or thesis statement; organize ideas, concepts, and information, using strategies such as definition, classification, comparison/contrast, and cause/effect; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension. CA LEGO® Education SPIKE™ Prime Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps
FOUNDATION / PROFICIENCY LEVEL	W.6.2.b.	Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples. LEGO® Education SPIKE™ Prime Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps
FOUNDATION / PROFICIENCY LEVEL	W.6.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic. LEGO® Education SPIKE™ Prime Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.6.	Writing Standards
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	W.6.3.	Write narratives to develop real or imagined experiences or events using effective technique, relevant descriptive details, and well-structured event sequences.
FOUNDATION / PROFICIENCY LEVEL	W.6.3.a.	Engage and orient the reader by establishing a context and introducing a narrator and/or characters; organize an event sequence that unfolds naturally and logically. LEGO® Education SPIKE™ Prime Extra Resources: Ideas, the LEGO way!
FOUNDATION / PROFICIENCY LEVEL	W.6.3.b.	Use narrative techniques, such as dialogue, pacing, and description, to develop experiences, events, and/or characters. LEGO® Education SPIKE™ Prime Extra Resources: Ideas, the LEGO way!
FOUNDATION / PROFICIENCY LEVEL	W.6.3.d.	Use precise words and phrases, relevant descriptive details, and sensory language to convey experiences and events. LEGO® Education SPIKE™ Prime Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.6.	Writing Standards
PERFORMANCE STANDARD / MODE		Production and Distribution of Writing

EXPECTATION / SUBSTRAND	W.6.4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.) <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps
EXPECTATION / SUBSTRAND	W.6.5.	With some guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach. (Editing for conventions should demonstrate command of Language standards 1–3 up to and including grade 6.) <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.6.	Writing Standards
PERFORMANCE STANDARD / MODE		Research to Build and Present Knowledge
EXPECTATION / SUBSTRAND	W.6.7.	Conduct short research projects to answer a question, drawing on several sources and refocusing the inquiry when appropriate. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
EXPECTATION / SUBSTRAND	W.6.8.	Gather relevant information from multiple print and digital sources; assess the credibility of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and providing basic bibliographic information for sources. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.6.	Writing Standards
PERFORMANCE STANDARD / MODE		Range of Writing
EXPECTATION / SUBSTRAND	W.6.10.	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. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.6.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Comprehension and Collaboration
EXPECTATION / SUBSTRAND	SL.6.1.	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 6 topics, texts, and issues, building on others' ideas and expressing their own clearly.

FOUNDATION / PROFICIENCY LEVEL	SL.6.1.a.	<p>Come to discussions prepared, having read or studied required material; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</p> <p><u>LEGO® Education SPIKETM Prime</u> Competition Ready: Training Camp 3: Reacting to Lines Extra Resources: Goal! Extra Resources: Ideas, the LEGO way! Extra Resources: What is this? Invention Squad: Design for Someone Invention Squad: Help! Invention Squad: Hopper Race Invention Squad: Super Cleanup Life Hacks: Repeat 5 Times Life Hacks: The Coach Training Trackers: Stretch with Data</p> <p><u>LEGO® Education BricQ Motion Prime</u> Free Kick Gymnast Land Yacht Pass the Ball Ski Slope Strike the Ball</p>
FOUNDATION / PROFICIENCY LEVEL	SL.6.1.b.	<p>Follow rules for collegial discussions, set specific goals and deadlines, and define individual roles as needed.</p> <p><u>LEGO® Education SPIKETM Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race</p> <p><u>LEGO® Education BricQ Motion Prime</u> Gymnast</p>
FOUNDATION / PROFICIENCY LEVEL	SL.6.1.c.	<p>Pose and respond to specific questions with elaboration and detail by making comments that contribute to the topic, text, or issue under discussion.</p> <p><u>LEGO® Education SPIKETM Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race</p> <p><u>LEGO® Education BricQ Motion Prime</u> Gymnast</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.6.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Comprehension and Collaboration
EXPECTATION / SUBSTRAND	SL.6.2.	<p>Interpret information presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how it contributes to a topic, text, or issue under study.</p> <p><u>LEGO® Education SPIKETM Prime</u> Invention Squad: Broken</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.6.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Presentation of Knowledge and Ideas
EXPECTATION / SUBSTRAND	SL.6.4.	<p>Present claims and findings (e.g., argument, narrative, informative, response to literature presentations), sequencing ideas logically and using pertinent descriptions, facts, and details and nonverbal elements to accentuate main ideas or themes; use appropriate eye contact, adequate volume, and clear pronunciation.CA</p>

FOUNDATION / PROFICIENCY LEVEL	SL.6.4.a.	<p>Plan and deliver an informative/explanatory presentation that: develops a topic with relevant facts, definitions, and concrete details; uses appropriate transitions to clarify relationships; uses precise language and domain specific vocabulary; and provides a strong conclusion. CA</p> <p><u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 3: Reacting to Lines Extra Resources: Goal! Extra Resources: What is this? Invention Squad: Design for Someone Invention Squad: Super Cleanup Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Repeat 5 Times Life Hacks: The Coach Training Trackers: Stretch with Data</p> <p><u>LEGO® Education BricQ Motion Prime</u> Free Kick Land Yacht Pass the Ball Ski Slope Strike the Ball</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.6.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Presentation of Knowledge and Ideas
EXPECTATION / SUBSTRAND	SL.6.5.	<p>Include multimedia components (e.g., graphics, images, music, sound) and visual displays in presentations to clarify information.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Ideas, the LEGO way! Extra Resources: What is this? Kickstart A Business: Automate It! Life Hacks: Repeat 5 Times Training Trackers: Stretch with Data</p>
EXPECTATION / SUBSTRAND	SL.6.6.	<p>Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate. (See grade 6 Language standards 1 and 3 for specific expectations.)</p> <p><u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.6.	Language Standards
PERFORMANCE STANDARD / MODE		Conventions of Standards English
EXPECTATION / SUBSTRAND	L.6.1.	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
FOUNDATION / PROFICIENCY LEVEL	L.6.1.e.	<p>Recognize variations from standard English in their own and others' writing and speaking, and identify and use strategies to improve expression in conventional language.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.6.	Language Standards
PERFORMANCE STANDARD / MODE		Knowledge of Language
EXPECTATION / SUBSTRAND	L.6.3.	Use knowledge of language and its conventions when writing, speaking, reading, or listening.
FOUNDATION / PROFICIENCY LEVEL	L.6.3.b.	<p>Maintain consistency in style and tone.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game</p>

CONTENT STANDARD / DOMAIN / PART	CA.CC.L.6.	Language Standards
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	L.6.4.	Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 6 reading and content, choosing flexibly from a range of strategies.
FOUNDATION / PROFICIENCY LEVEL	L.6.4.a.	Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
FOUNDATION / PROFICIENCY LEVEL	L.6.4.d.	Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary). <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.6.	Language Standards
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	L.6.5.	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.
FOUNDATION / PROFICIENCY LEVEL	L.6.5.a.	Interpret figures of speech (e.g., personification) in context. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
FOUNDATION / PROFICIENCY LEVEL	L.6.5.c.	Distinguish among the connotations (associations) of words with similar denotations (definitions) (e.g., stingy, scrimping, economical, unwholesome, thrifty). <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.6.	Language Standards
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	L.6.6.	Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game

California Content Standards
Language Arts
Grade: 7 - Adopted: 2013

CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.R.	College and Career Readiness Anchor Standards for Reading
PERFORMANCE STANDARD / MODE		Craft and Structure
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.R.4	Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game

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PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.1	Write arguments to support claims in an analysis of substantive topics or texts using valid reasoning and relevant and sufficient evidence. <u>LEGO® Education SPIKETM Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Extra Resources: Ideas, the LEGO way!
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EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.3	Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details and well-structured event sequences. <u>LEGO® Education SPIKETM Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.W.	College and Career Readiness Anchor Standards for Writing
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PERFORMANCE STANDARD / MODE		Research to Build and Present Knowledge
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.7	Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation. <u>LEGO® Education SPIKETM Prime</u> Extra Resources: Ideas, the LEGO way!

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PERFORMANCE STANDARD / MODE		Comprehension and Collaboration
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.1	Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race
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CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.SL.	College and Career Readiness Anchor Standards for Speaking and Listening
PERFORMANCE STANDARD / MODE		Presentation of Knowledge and Ideas
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.4	Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 3: Reacting to Lines Extra Resources: Goal! Extra Resources: What is this? Invention Squad: Design for Someone Invention Squad: Super Cleanup Life Hacks: Repeat 5 Times Life Hacks: The Coach Training Trackers: Stretch with Data <u>LEGO® Education BricQ Motion Prime</u> Pass the Ball
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.5	Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Ideas, the LEGO way! Extra Resources: What is this? Kickstart A Business: Automate It! Life Hacks: Repeat 5 Times Training Trackers: Stretch with Data
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.6	Adapt speech to a variety of contexts and communicative tasks, demonstrating command of formal English when indicated or appropriate. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe

CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.L.	College and Career Readiness Anchor Standards for Language
PERFORMANCE STANDARD / MODE		Conventions of Standard English
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.L.	College and Career Readiness Anchor Standards for Language
PERFORMANCE STANDARD / MODE		Knowledge of Language
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.3	Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.L.	College and Career Readiness Anchor Standards for Language
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.4	Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials, as appropriate. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.5	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.6	Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when encountering an unknown term important to comprehension or expression. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.RL.7.	Reading Standards for Literature
PERFORMANCE STANDARD / MODE		Craft and Structure
EXPECTATION / SUBSTRAND	RL.7.4.	Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings; analyze the impact of rhymes and other repetitions of sounds (e.g., alliteration) on a specific verse or stanza of a poem or section of a story or drama. (See grade 7 Language standards 4–6 for additional expectations.) CA <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.RL.7.	Reading Standards for Literature
PERFORMANCE STANDARD / MODE		Integration of Knowledge and Ideas

EXPECTATION / SUBSTRAND	RI.7.7.	Compare and contrast a written story, drama, or poem to its audio, filmed, staged, or multimedia version, analyzing the effects of techniques unique to each medium (e.g., lighting, sound, color, or camera focus and angles in a film). <u>LEGO® Education SPIKETM Prime</u> Extra Resources: Goal! Extra Resources: Ideas, the LEGO way! Extra Resources: What is this? Kickstart A Business: Automate It! Life Hacks: Repeat 5 Times Training Trackers: Stretch with Data
CONTENT STANDARD / DOMAIN / PART	CA.CC.RI.7.	Reading Standards for Informational Text
PERFORMANCE STANDARD / MODE		Craft and Structure
EXPECTATION / SUBSTRAND	RI.7.4.	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the impact of a specific word choice on meaning and tone. (See grade 7 Language standards 4–6 for additional expectations.) CA <u>LEGO® Education SPIKETM Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.7.	Writing Standards
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	W.7.1.	Write arguments to support claims with clear reasons and relevant evidence.
FOUNDATION / PROFICIENCY LEVEL	W.7.1.a.	Introduce claim(s), acknowledge and address alternate or opposing claims, and organize the reasons and evidence logically. CA <u>LEGO® Education SPIKETM Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Extra Resources: Ideas, the LEGO way!
FOUNDATION / PROFICIENCY LEVEL	W.7.1.b.	Support claim(s) or counterarguments with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text. CA <u>LEGO® Education SPIKETM Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Extra Resources: Ideas, the LEGO way!
FOUNDATION / PROFICIENCY LEVEL	W.7.1.c.	Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), reasons, and evidence. <u>LEGO® Education SPIKETM Prime</u> Extra Resources: Ideas, the LEGO way! Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.7.	Writing Standards
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	W.7.2.	Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.

FOUNDATION / PROFICIENCY LEVEL	W.7.2.a.	<p>Introduce a topic or thesis statement clearly, previewing what is to follow; organize ideas, concepts, and information, using strategies such as definition, classification, comparison/contrast, and cause/ effect; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension. CA</p> <p><u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps</p>
FOUNDATION / PROFICIENCY LEVEL	W.7.2.b.	<p>Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps</p>
FOUNDATION / PROFICIENCY LEVEL	W.7.2.d.	<p>Use precise language and domain-specific vocabulary to inform about or explain the topic.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.7.	Writing Standards
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	W.7.3.	Write narratives to develop real or imagined experiences or events using effective technique, relevant descriptive details, and well-structured event sequences.
FOUNDATION / PROFICIENCY LEVEL	W.7.3.b.	<p>Use narrative techniques, such as dialogue, pacing, and description, to develop experiences, events, and/or characters.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.7.	Writing Standards
PERFORMANCE STANDARD / MODE		Production and Distribution of Writing
EXPECTATION / SUBSTRAND	W.7.4.	<p>Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1-3 above.)</p> <p><u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps</p>

EXPECTATION / SUBSTRAND	W.7.5.	With some guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on how well purpose and audience have been addressed. (Editing for conventions should demonstrate command of Language standards 1–3 up to and including grade 7.) <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.7.	Writing Standards
PERFORMANCE STANDARD / MODE		Research to Build and Present Knowledge
EXPECTATION / SUBSTRAND	W.7.7.	Conduct short research projects to answer a question, drawing on several sources and generating additional related, focused questions for further research and investigation. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
EXPECTATION / SUBSTRAND	W.7.8.	Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.7.	Writing Standards
PERFORMANCE STANDARD / MODE		Range of Writing
EXPECTATION / SUBSTRAND	W.7.10.	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. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.7.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Comprehension and Collaboration
EXPECTATION / SUBSTRAND	SL.7.1.	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 7 topics, texts, and issues, building on others' ideas and expressing their own clearly.
FOUNDATION / PROFICIENCY LEVEL	SL.7.1.a.	Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race
FOUNDATION / PROFICIENCY LEVEL	SL.7.1.b.	Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race
FOUNDATION / PROFICIENCY LEVEL	SL.7.1.c.	Pose questions that elicit elaboration and respond to others' questions and comments with relevant observations and ideas that bring the discussion back on topic as needed. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race

FOUNDATION / PROFICIENCY LEVEL	SL.7.1.d.	Acknowledge new information expressed by others and, when warranted, modify their own views. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.7.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Comprehension and Collaboration
EXPECTATION / SUBSTRAND	SL.7.2.	Analyze the main ideas and supporting details presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how the ideas clarify a topic, text, or issue under study. <u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Broken
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.7.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Presentation of Knowledge and Ideas
EXPECTATION / SUBSTRAND	SL.7.4.	Present claims and findings (e.g., argument, narrative, summary presentations), emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate eye contact, adequate volume, and clear pronunciation. CA
FOUNDATION / PROFICIENCY LEVEL	SL.7.4.a.	Plan and present an argument that: supports a claim, acknowledges counterarguments, organizes evidence logically, uses words and phrases to create cohesion, and provides a concluding statement that supports the argument presented. CA <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 3: Reacting to Lines Extra Resources: Goal! Extra Resources: What is this? Invention Squad: Design for Someone Invention Squad: Super Cleanup Life Hacks: Repeat 5 Times Life Hacks: The Coach Training Trackers: Stretch with Data <u>LEGO® Education BricQ Motion Prime</u> Pass the Ball
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.7.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Presentation of Knowledge and Ideas
EXPECTATION / SUBSTRAND	SL.7.5.	Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Ideas, the LEGO way! Extra Resources: What is this? Kickstart A Business: Automate It! Life Hacks: Repeat 5 Times Training Trackers: Stretch with Data
EXPECTATION / SUBSTRAND	SL.7.6.	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate. (See grade 7 Language standards 1 and 3 for specific expectations.) <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.7.	Language Standards

PERFORMANCE STANDARD / MODE		Knowledge of Language
EXPECTATION / SUBSTRAND	L.7.3.	Use knowledge of language and its conventions when writing, speaking, reading, or listening.
FOUNDATION / PROFICIENCY LEVEL	L.7.3.a.	Choose language that expresses ideas precisely and concisely, recognizing and eliminating wordiness and redundancy. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.7.	Language Standards
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	L.7.4.	Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 7 reading and content, choosing flexibly from a range of strategies.
FOUNDATION / PROFICIENCY LEVEL	L.7.4.a.	Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
FOUNDATION / PROFICIENCY LEVEL	L.7.4.d.	Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary). <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.7.	Language Standards
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	L.7.5.	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.
FOUNDATION / PROFICIENCY LEVEL	L.7.5.a.	Interpret figures of speech (e.g., literary, biblical, and mythological allusions) in context. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
FOUNDATION / PROFICIENCY LEVEL	L.7.5.c.	Distinguish among the connotations (associations) of words with similar denotations (definitions) (e.g., refined, respectful, polite, diplomatic, condescending). <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.7.	Language Standards
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	L.7.6.	Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game

California Content Standards
Language Arts
Grade: 8 - Adopted: 2013

CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.R.	College and Career Readiness Anchor Standards for Reading
PERFORMANCE STANDARD / MODE		Craft and Structure
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.R.4	Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.W.	College and Career Readiness Anchor Standards for Writing
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.1	Write arguments to support claims in an analysis of substantive topics or texts using valid reasoning and relevant and sufficient evidence. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Extra Resources: Ideas, the LEGO way!
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.2	Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.3	Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details and well-structured event sequences. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.W.	College and Career Readiness Anchor Standards for Writing
PERFORMANCE STANDARD / MODE		Production and Distribution of Writing
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps

EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.5	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.W.	College and Career Readiness Anchor Standards for Writing
PERFORMANCE STANDARD / MODE		Research to Build and Present Knowledge
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.7	Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.W.	College and Career Readiness Anchor Standards for Writing
PERFORMANCE STANDARD / MODE		Range of Writing
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.W.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 tasks, purposes, and audiences. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.SL.	College and Career Readiness Anchor Standards for Speaking and Listening
PERFORMANCE STANDARD / MODE		Comprehension and Collaboration
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.1	Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.2	Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally. <u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Broken
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.SL.	College and Career Readiness Anchor Standards for Speaking and Listening
PERFORMANCE STANDARD / MODE		Presentation of Knowledge and Ideas
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.4	Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 3: Reacting to Lines Extra Resources: Goal! Extra Resources: What is this? Invention Squad: Design for Someone Invention Squad: Super Cleanup Life Hacks: Repeat 5 Times Life Hacks: The Coach Training Trackers: Stretch with Data <u>LEGO® Education BricQ Motion Prime</u> Pass the Ball

EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.5	<p>Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Ideas, the LEGO way! Extra Resources: What is this? Kickstart A Business: Automate It! Life Hacks: Repeat 5 Times Training Trackers: Stretch with Data</p>
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.SL.6	<p>Adapt speech to a variety of contexts and communicative tasks, demonstrating command of formal English when indicated or appropriate.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe</p>
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.L.	College and Career Readiness Anchor Standards for Language
PERFORMANCE STANDARD / MODE		Conventions of Standard English
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.1	<p>Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick</p>
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.L.	College and Career Readiness Anchor Standards for Language
PERFORMANCE STANDARD / MODE		Knowledge of Language
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.3	<p>Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game</p>
CONTENT STANDARD / DOMAIN / PART	CCSS.ELA-Literacy.CCR A.L.	College and Career Readiness Anchor Standards for Language
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.4	<p>Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials, as appropriate.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game</p>
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.5	<p>Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game</p>
EXPECTATION / SUBSTRAND	CCSS.ELA-Literacy.CCR A.L.6	<p>Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when encountering an unknown term important to comprehension or expression.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game</p>

CONTENT STANDARD / DOMAIN / PART	CA.CC.RL.8.	Reading Standards for Literature
PERFORMANCE STANDARD / MODE		Craft and Structure
EXPECTATION / SUBSTRAND	RL.8.4.	Determine the meaning of words and phrases as they are used in a text, including figurative and connotative meanings; analyze the impact of specific word choices on meaning and tone, including analogies or allusions to other texts. (See grade 8 Language standards 4–6 for additional expectations.) CA <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.RI.8.	Reading Standards for Informational Text
PERFORMANCE STANDARD / MODE		Craft and Structure
EXPECTATION / SUBSTRAND	RI.8.4.	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the impact of specific word choices on meaning and tone, including analogies or allusions to other texts. (See grade 8 Language standards 4–6 for additional expectations.) CA <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.RI.8.	Reading Standards for Informational Text
PERFORMANCE STANDARD / MODE		Integration of Knowledge and Ideas
EXPECTATION / SUBSTRAND	RI.8.7.	Evaluate the advantages and disadvantages of using different mediums (e.g., print or digital text, video, multimedia) to present a particular topic or idea. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Ideas, the LEGO way! Extra Resources: What is this? Kickstart A Business: Automate It! Life Hacks: Repeat 5 Times Training Trackers: Stretch with Data
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.8.	Writing Standards
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	W.8.1.	Write arguments to support claims with clear reasons and relevant evidence.
FOUNDATION / PROFICIENCY LEVEL	W.8.1.a.	Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Extra Resources: Ideas, the LEGO way!
FOUNDATION / PROFICIENCY LEVEL	W.8.1.b.	Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!

FOUNDATION / PROFICIENCY LEVEL	W.8.1.c.	Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Extra Resources: Ideas, the LEGO way! Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.8.	Writing Standards
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	W.8.2.	Write informative/explanatory texts, including career development documents (e.g., simple business letters and job applications), to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content. CA
FOUNDATION / PROFICIENCY LEVEL	W.8.2.a.	Introduce a topic or thesis statement clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension. CA <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
FOUNDATION / PROFICIENCY LEVEL	W.8.2.b.	Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps
FOUNDATION / PROFICIENCY LEVEL	W.8.2.d.	Use precise language and domain-specific vocabulary to inform about or explain the topic. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.8.	Writing Standards
PERFORMANCE STANDARD / MODE		Text Types and Purposes
EXPECTATION / SUBSTRAND	W.8.3.	Write narratives to develop real or imagined experiences or events using effective technique, relevant descriptive details, and well-structured event sequences.
FOUNDATION / PROFICIENCY LEVEL	W.8.3.b.	Use narrative techniques, such as dialogue, pacing, description, and reflection, to develop experiences, events, and/or characters. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.8.	Writing Standards
PERFORMANCE STANDARD / MODE		Production and Distribution of Writing

EXPECTATION / SUBSTRAND	W.8.4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.) <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Assembling an Advanced Driving Base Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Time for an Upgrade Competition Ready: Training Camp 1: Driving Around Competition Ready: Training Camp 2: Playing with Objects Extra Resources: Ideas, the LEGO way! Kickstart A Business: Out of Order Kickstart A Business: Place Your Order Training Trackers: Aim for It Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Watch Your Steps
EXPECTATION / SUBSTRAND	W.8.5.	With some guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on how well purpose and audience have been addressed. (Editing for conventions should demonstrate command of Language standards 1–3 up to and including grade 8.) <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.8.	Writing Standards
PERFORMANCE STANDARD / MODE		Research to Build and Present Knowledge
EXPECTATION / SUBSTRAND	W.8.8.	Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CA.CC.W.8.	Writing Standards
PERFORMANCE STANDARD / MODE		Range of Writing
EXPECTATION / SUBSTRAND	W.8.10.	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. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way!
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.8.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Comprehension and Collaboration
EXPECTATION / SUBSTRAND	SL.8.1.	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.
FOUNDATION / PROFICIENCY LEVEL	SL.8.1.a.	Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race

FOUNDATION / PROFICIENCY LEVEL	SL.8.1.b.	Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race
FOUNDATION / PROFICIENCY LEVEL	SL.8.1.c.	Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race
FOUNDATION / PROFICIENCY LEVEL	SL.8.1.d.	Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Ideas, the LEGO way! Invention Squad: Help! Invention Squad: Hopper Race
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.8.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Comprehension and Collaboration
EXPECTATION / SUBSTRAND	SL.8.2.	Analyze the purpose of information presented in diverse media and formats (e.g., visually, quantitatively, orally) and evaluate the motives (e.g., social, commercial, political) behind its presentation. <u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Broken
CONTENT STANDARD / DOMAIN / PART	CA.CC.SL.8.	Speaking and Listening Standards
PERFORMANCE STANDARD / MODE		Presentation of Knowledge and Ideas
EXPECTATION / SUBSTRAND	SL.8.5.	Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Ideas, the LEGO way! Extra Resources: What is this? Kickstart A Business: Automate It! Life Hacks: Repeat 5 Times Training Trackers: Stretch with Data
EXPECTATION / SUBSTRAND	SL.8.6.	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate. (See grade 8 Language standards 1 and 3 for specific expectations.) <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.8.	Language Standards
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	L.8.4.	Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on grade 8 reading and content, choosing flexibly from a range of strategies.
FOUNDATION / PROFICIENCY LEVEL	L.8.4.a.	Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game

FOUNDATION / PROFICIENCY LEVEL	L.8.4.d.	Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary). <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.8.	Language Standards
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	L.8.5.	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.
FOUNDATION / PROFICIENCY LEVEL	L.8.5.a.	Interpret figures of speech (e.g. verbal irony, puns) in context. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
FOUNDATION / PROFICIENCY LEVEL	L.8.5.b.	Use the relationship between particular words to better understand each of the words. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
FOUNDATION / PROFICIENCY LEVEL	L.8.5.c.	Distinguish among the connotations (associations) of words with similar denotations (definitions) (e.g., bullheaded, willful, firm, persistent, resolute). <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
CONTENT STANDARD / DOMAIN / PART	CA.CC.L.8.	Language Standards
PERFORMANCE STANDARD / MODE		Vocabulary Acquisition and Use
EXPECTATION / SUBSTRAND	L.8.6.	Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick Kickstart A Business: Keep It Really Safe! Kickstart A Business: Keep It Safe Life Hacks: Brain Game

California Content Standards

Mathematics

Grade: 6 - Adopted: 2013

CONTENT STANDARD / DOMAIN / PART	CA.CC.6.RP.	Ratios and Proportional Relationships
PERFORMANCE STANDARD / MODE		Understand ratio concepts and use ratio reasoning to solve problems.

EXPECTATION / SUBSTRAND	6.RP.1.	<p>Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."</p> <p><u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Mission Ready Competition Ready: The Guided Mission Invention Squad: Broken Training Trackers: Aim for It Training Trackers: Stretch with Data Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Warm-Up Training Trackers: Watch Your Steps</p> <p><u>LEGO® Education BricQ Motion Prime</u> Free Kick Pass the Ball Propeller Car</p>
EXPECTATION / SUBSTRAND	6.RP.2.	<p>Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$, and use rate language in the context of a ratio relationship. For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is $3/4$ cup of flour for each cup of sugar." "We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger."</p> <p><u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Mission Ready Competition Ready: The Guided Mission Invention Squad: Broken Kickstart A Business: Track Your Packages</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.RP.	Ratios and Proportional Relationships
PERFORMANCE STANDARD / MODE		Understand ratio concepts and use ratio reasoning to solve problems.
EXPECTATION / SUBSTRAND	6.RP.3.	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.
FOUNDATION / PROFICIENCY LEVEL	6.RP.3.a.	<p>Make tables of equivalent ratios relating quantities with whole number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Track Your Packages</p>
FOUNDATION / PROFICIENCY LEVEL	6.RP.3.b.	<p>Solve unit rate problems including those involving unit pricing and constant speed. For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?</p> <p><u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Mission Ready Competition Ready: The Guided Mission Invention Squad: Broken Kickstart A Business: Track Your Packages</p>
FOUNDATION / PROFICIENCY LEVEL	6.RP.3.c.	<p>Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means $30/100$ times the quantity); solve problems involving finding the whole, given a part and the percent.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Super Cleanup Kickstart A Business: Out of Order</p>
FOUNDATION / PROFICIENCY LEVEL	6.RP.3.d.	<p>Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Break Dance</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.NS.	The Number System

PERFORMANCE STANDARD / MODE		Compute fluently with multi-digit numbers and find common factors and multiples.
EXPECTATION / SUBSTRAND	6.NS.3.	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. LEGO® Education SPIKE™ Prime Kickstart A Business: Out of Order
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.NS.	The Number System
PERFORMANCE STANDARD / MODE		Apply and extend previous understandings of numbers to the system of rational numbers.
EXPECTATION / SUBSTRAND	6.NS.5.	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation. LEGO® Education SPIKE™ Prime Life Hacks: Break Dance
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.NS.	The Number System
PERFORMANCE STANDARD / MODE		Apply and extend previous understandings of numbers to the system of rational numbers.
EXPECTATION / SUBSTRAND	6.NS.6.	Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.
FOUNDATION / PROFICIENCY LEVEL	6.NS.6.a.	Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite. LEGO® Education SPIKE™ Prime Competition Ready: Training Camp 2: Playing with Objects Competition Ready: Training Camp 3: Reacting to Lines
FOUNDATION / PROFICIENCY LEVEL	6.NS.6.c.	Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane. LEGO® Education SPIKE™ Prime Competition Ready: Training Camp 2: Playing with Objects Competition Ready: Training Camp 3: Reacting to Lines
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.NS.	The Number System
PERFORMANCE STANDARD / MODE		Apply and extend previous understandings of numbers to the system of rational numbers.
EXPECTATION / SUBSTRAND	6.NS.7.	Understand ordering and absolute value of rational numbers.
FOUNDATION / PROFICIENCY LEVEL	6.NS.7.a.	Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right. LEGO® Education SPIKE™ Prime Competition Ready: Training Camp 2: Playing with Objects Competition Ready: Training Camp 3: Reacting to Lines
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Apply and extend previous understandings of arithmetic to algebraic expressions.
EXPECTATION / SUBSTRAND	6.EE.2.	Write, read, and evaluate expressions in which letters stand for numbers.

FOUNDATION / PROFICIENCY LEVEL	6.EE.2.a.	Write expressions that record operations with numbers and with letters standing for numbers. For example, express the calculation "Subtract y from 5" as $5 - y$. <u>LEGO® Education SPIKE™ Prime</u> <u>Life Hacks: Wind Speed</u>
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Apply and extend previous understandings of arithmetic to algebraic expressions.
EXPECTATION / SUBSTRAND	6.EE.3.	Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$. <u>LEGO® Education SPIKE™ Prime</u> <u>Life Hacks: Repeat 5 Times</u>
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Reason about and solve one-variable equations and inequalities.
EXPECTATION / SUBSTRAND	6.EE.5.	Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true. <u>LEGO® Education SPIKE™ Prime</u> <u>Invention Squad: Hopper Race</u> <u>LEGO® Education BricQ Motion Prime</u> <u>Gymnast</u>
EXPECTATION / SUBSTRAND	6.EE.6.	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set. <u>LEGO® Education SPIKE™ Prime</u> <u>Invention Squad: Hopper Race</u> <u>Life Hacks: Repeat 5 Times</u> <u>Life Hacks: Wind Speed</u> <u>LEGO® Education BricQ Motion Prime</u> <u>Gymnast</u>
EXPECTATION / SUBSTRAND	6.EE.7.	Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p , q and x are all nonnegative rational numbers. <u>LEGO® Education SPIKE™ Prime</u> <u>Invention Squad: Hopper Race</u> <u>Life Hacks: Wind Speed</u> <u>LEGO® Education BricQ Motion Prime</u> <u>Gymnast</u>
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Represent and analyze quantitative relationships between dependent and independent variables.

EXPECTATION / SUBSTRAND	6.EE.9.	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Repeat 5 Times Life Hacks: Wind Speed
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.G.	Geometry
PERFORMANCE STANDARD / MODE		Solve real-world and mathematical problems involving area, surface area, and volume.
EXPECTATION / SUBSTRAND	6.G.1.	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems. <u>LEGO® Education BricQ Motion Prime</u> Land Yacht
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.SP.	Statistics and Probability
PERFORMANCE STANDARD / MODE		Develop understanding of statistical variability.
EXPECTATION / SUBSTRAND	6.SP.2.	Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Going the Distance Extra Resources: Pass the Brick Life Hacks: Brain Game Life Hacks: Rain or shine? <u>LEGO® Education BricQ Motion Prime</u> Strike the Ball
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.SP.	Statistics and Probability
PERFORMANCE STANDARD / MODE		Summarize and describe distributions.
EXPECTATION / SUBSTRAND	6.SP.4.	Display numerical data in plots on a number line, including dot plots, histograms, and box plots. <u>LEGO® Education BricQ Motion Prime</u> Ski Slope
CONTENT STANDARD / DOMAIN / PART	CA.CC.6.SP.	Statistics and Probability
PERFORMANCE STANDARD / MODE		Summarize and describe distributions.
EXPECTATION / SUBSTRAND	6.SP.5.	Summarize numerical data sets in relation to their context, such as by:
FOUNDATION / PROFICIENCY LEVEL	6.SP.5.a.	Reporting the number of observations. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Going the Distance Extra Resources: Pass the Brick Life Hacks: Brain Game Life Hacks: Rain or shine? <u>LEGO® Education BricQ Motion Prime</u> Strike the Ball

FOUNDATION / PROFICIENCY LEVEL	6.SP.5.c.	<p>Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game</p>
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California Content Standards
Mathematics
Grade: 7 - Adopted: 2013

CONTENT STANDARD / DOMAIN / PART	CA.CC.7.RP.	Ratios and Proportional Relationships
PERFORMANCE STANDARD / MODE		Analyze proportional relationships and use them to solve real-world and mathematical problems.
EXPECTATION / SUBSTRAND	7.RP.1.	<p>Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. For example, if a person walks $\frac{1}{2}$ mile in each $\frac{1}{4}$ hour, compute the unit rate as the complex fraction $(\frac{1}{2})/(\frac{1}{4})$ miles per hour, equivalently 2 miles per hour.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Mission Ready Competition Ready: The Guided Mission Invention Squad: Broken Kickstart A Business: Track Your Packages</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.RP.	Ratios and Proportional Relationships
PERFORMANCE STANDARD / MODE		Analyze proportional relationships and use them to solve real-world and mathematical problems.
EXPECTATION / SUBSTRAND	7.RP.2.	Recognize and represent proportional relationships between quantities.
FOUNDATION / PROFICIENCY LEVEL	7.RP.2.a.	<p>Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Training Trackers: Aim for It Training Trackers: Stretch with Data Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Warm-Up Training Trackers: Watch Your Steps</p>
FOUNDATION / PROFICIENCY LEVEL	7.RP.2.b.	<p>Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Repeat 5 Times</p>
FOUNDATION / PROFICIENCY LEVEL	7.RP.2.c.	<p>Represent proportional relationships by equations. For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as $t = pn$.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Repeat 5 Times Life Hacks: Wind Speed</p>
FOUNDATION / PROFICIENCY LEVEL	7.RP.2.d.	<p>Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points $(0, 0)$ and $(1, r)$ where r is the unit rate.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Mission Ready Competition Ready: The Guided Mission Invention Squad: Broken Kickstart A Business: Track Your Packages Life Hacks: Repeat 5 Times</p>

CONTENT STANDARD / DOMAIN / PART	CA.CC.7.RP.	Ratios and Proportional Relationships
PERFORMANCE STANDARD / MODE		Analyze proportional relationships and use them to solve real-world and mathematical problems.
EXPECTATION / SUBSTRAND	7.RP.3.	Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error. <u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Super Cleanup Life Hacks: Break Dance
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.NS.	The Number System
PERFORMANCE STANDARD / MODE		Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
EXPECTATION / SUBSTRAND	7.NS.1.	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.
FOUNDATION / PROFICIENCY LEVEL	7.NS.1.a.	Describe situations in which opposite quantities combine to make 0. For example, a hydrogen atom has 0 charge because its two constituents are oppositely charged. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 2: Playing with Objects Competition Ready: Training Camp 3: Reacting to Lines
FOUNDATION / PROFICIENCY LEVEL	7.NS.1.b.	Understand $p + q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Training Camp 2: Playing with Objects Competition Ready: Training Camp 3: Reacting to Lines
FOUNDATION / PROFICIENCY LEVEL	7.NS.1.d.	Apply properties of operations as strategies to add and subtract rational numbers. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Out of Order
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.NS.	The Number System
PERFORMANCE STANDARD / MODE		Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
EXPECTATION / SUBSTRAND	7.NS.2.	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.
FOUNDATION / PROFICIENCY LEVEL	7.NS.2.a.	Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Out of Order
FOUNDATION / PROFICIENCY LEVEL	7.NS.2.c.	Apply properties of operations as strategies to multiply and divide rational numbers. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Out of Order
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.NS.	The Number System
PERFORMANCE STANDARD / MODE		Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

EXPECTATION / SUBSTRAND	7.NS.3.	Solve real-world and mathematical problems involving the four operations with rational numbers. <u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Super Cleanup Kickstart A Business: Out of Order Life Hacks: Wind Speed
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Use properties of operations to generate equivalent expressions.
EXPECTATION / SUBSTRAND	7.EE.1.	Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Repeat 5 Times
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
EXPECTATION / SUBSTRAND	7.EE.3.	Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional $\frac{1}{10}$ of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar $9\frac{3}{4}$ inches long in the center of a door that is $27\frac{1}{2}$ inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation. <u>LEGO® Education SPIKE™ Prime</u> Kickstart A Business: Out of Order Life Hacks: Wind Speed
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
EXPECTATION / SUBSTRAND	7.EE.4.	Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.
FOUNDATION / PROFICIENCY LEVEL	7.EE.4.a.	Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p , q , and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width? <u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Hopper Race
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.G.	Geometry
PERFORMANCE STANDARD / MODE		Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
EXPECTATION / SUBSTRAND	7.G.4.	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle. <u>LEGO® Education SPIKE™ Prime</u> Competition Ready: Mission Ready Competition Ready: My Code, Our Program Competition Ready: The Guided Mission Competition Ready: Training Camp 1: Driving Around

CONTENT STANDARD / DOMAIN / PART	CA.CC.7.SP.	Statistics and Probability
PERFORMANCE STANDARD / MODE		Use random sampling to draw inferences about a population.
EXPECTATION / SUBSTRAND	7.SP.1.	Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick
EXPECTATION / SUBSTRAND	7.SP.2.	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions. For example, estimate the mean word length in a book by randomly sampling words from the book; predict the winner of a school election based on randomly sampled survey data. Gauge how far off the estimate or prediction might be. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Going the Distance Extra Resources: Pass the Brick
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.SP.	Statistics and Probability
PERFORMANCE STANDARD / MODE		Draw informal comparative inferences about two populations.
EXPECTATION / SUBSTRAND	7.SP.3.	Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability. For example, the mean height of players on the basketball team is 10 cm greater than the mean height of players on the soccer team, about twice the variability (mean absolute deviation) on either team; on a dot plot, the separation between the two distributions of heights is noticeable. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Brain Game
EXPECTATION / SUBSTRAND	7.SP.4.	Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations. For example, decide whether the words in a chapter of a seventh-grade science book are generally longer than the words in a chapter of a fourth-grade science book. <u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal!
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.SP.	Statistics and Probability
PERFORMANCE STANDARD / MODE		Investigate chance processes and develop, use, and evaluate probability models.
EXPECTATION / SUBSTRAND	7.SP.6.	Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability. For example, when rolling a number cube 600 times, predict that a 3 or 6 would be rolled roughly 200 times, but probably not exactly 200 times. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Rain or shine?
CONTENT STANDARD / DOMAIN / PART	CA.CC.7.SP.	Statistics and Probability
PERFORMANCE STANDARD / MODE		Investigate chance processes and develop, use, and evaluate probability models.
EXPECTATION / SUBSTRAND	7.SP.8.	Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation.

FOUNDATION / PROFICIENCY LEVEL	7.SP.8.a.	Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs. <u>LEGO® Education SPIKE™ Prime</u> <u>Life Hacks: Rain or shine?</u>
FOUNDATION / PROFICIENCY LEVEL	7.SP.8.b.	Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., "rolling double sixes"), identify the outcomes in the sample space which compose the event. <u>LEGO® Education SPIKE™ Prime</u> <u>Life Hacks: Rain or shine?</u>

California Content Standards
Mathematics

Grade: 8 - Adopted: 2013

CONTENT STANDARD / DOMAIN / PART	CA.CC.8.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Work with radicals and integer exponents.
EXPECTATION / SUBSTRAND	8.EE.3.	Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the population of the United States as 3×10^8 and the population of the world as 7×10^9 , and determine that the world population is more than 20 times larger. <u>LEGO® Education SPIKE™ Prime</u> <u>Life Hacks: Wind Speed</u>
EXPECTATION / SUBSTRAND	8.EE.4.	Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology. <u>LEGO® Education SPIKE™ Prime</u> <u>Life Hacks: Wind Speed</u>
CONTENT STANDARD / DOMAIN / PART	CA.CC.8.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Understand the connections between proportional relationships, lines, and linear equations.
EXPECTATION / SUBSTRAND	8.EE.5.	Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed. <u>LEGO® Education SPIKE™ Prime</u> Training Trackers: Aim for It Training Trackers: Stretch with Data Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Warm-Up Training Trackers: Watch Your Steps
EXPECTATION / SUBSTRAND	8.EE.6.	Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b . <u>LEGO® Education SPIKE™ Prime</u> <u>Life Hacks: Repeat 5 Times</u>
CONTENT STANDARD / DOMAIN / PART	CA.CC.8.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Analyze and solve linear equations and pairs of simultaneous linear equations.

EXPECTATION / SUBSTRAND	8.EE.7.	Solve linear equations in one variable.
FOUNDATION / PROFICIENCY LEVEL	8.EE.7.a.	Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers). <u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Hopper Race
FOUNDATION / PROFICIENCY LEVEL	8.EE.7.b.	Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms. <u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Hopper Race
CONTENT STANDARD / DOMAIN / PART	CA.CC.8.EE.	Expressions and Equations
PERFORMANCE STANDARD / MODE		Analyze and solve linear equations and pairs of simultaneous linear equations.
EXPECTATION / SUBSTRAND	8.EE.8.	Analyze and solve pairs of simultaneous linear equations.
FOUNDATION / PROFICIENCY LEVEL	8.EE.8.a.	Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously. <u>LEGO® Education SPIKE™ Prime</u> Invention Squad: Hopper Race
CONTENT STANDARD / DOMAIN / PART	CA.CC.8.F.	Functions
PERFORMANCE STANDARD / MODE		Define, evaluate, and compare functions.
EXPECTATION / SUBSTRAND	8.F.2.	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change. <u>LEGO® Education SPIKE™ Prime</u> Training Trackers: Aim for It Training Trackers: Stretch with Data Training Trackers: This is Uphill Training Trackers: Time for Squat Jumps Training Trackers: Warm-Up Training Trackers: Watch Your Steps
EXPECTATION / SUBSTRAND	8.F.3.	Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. For example, the function $A = s^2$ giving the area of a square as a function of its side length is not linear because its graph contains the points (1,1), (2,4) and (3,9), which are not on a straight line. <u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Repeat 5 Times Training Trackers: Stretch with Data
CONTENT STANDARD / DOMAIN / PART	CA.CC.8.F.	Functions
PERFORMANCE STANDARD / MODE		Use functions to model relationships between quantities.

EXPECTATION / SUBSTRAND	8.F.4.	<p>Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Repeat 5 Times Life Hacks: Wind Speed</p>
CONTENT STANDARD / DOMAIN / PART	CA.CC.8.SP.	Statistics and Probability
PERFORMANCE STANDARD / MODE		Investigate patterns of association in bivariate data.
EXPECTATION / SUBSTRAND	8.SP.1.	<p>Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Going the Distance Extra Resources: Pass the Brick Life Hacks: Brain Game</p>
EXPECTATION / SUBSTRAND	8.SP.2.	<p>Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.</p> <p><u>LEGO® Education SPIKE™ Prime</u> Extra Resources: Goal! Extra Resources: Going the Distance Extra Resources: Pass the Brick Life Hacks: Brain Game</p>
EXPECTATION / SUBSTRAND	8.SP.4.	<p>Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores?</p> <p><u>LEGO® Education SPIKE™ Prime</u> Life Hacks: Rain or shine?</p>