BRAIN QUEST®

Brain Quest Workbook: Fifth Grade

GRADE	5	SPELLING & VOCABULARY	CCSS ELA LITERACY Language
	L.5.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	
	L.5.4.b	Use common, grade-appropriate Greek and Latin affixes and roots as clues to the meaning of a word (e.g., photograph, photosynthesis).	
	L.5.4.c	Consult reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation and determine or clarify the precise meaning of key words and phrases.	
	L.5.5	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	
	L.5.5.a	Interpret figurative language, including similes and metaphors, in context.	
	L.5.5.b	Recognize and explain the meaning of common idioms, adages, and proverbs.	

|		LANGUAGE ARTS	CCSS ELA LITERACY Language
	L.5.1.a	Explain the function of conjunctions, prepositions, and interjections in general and their function in particular sentences.	
	L.5.1.b	Form and use the perfect (e.g., I had walked; I have walked; I will have walked) verb tenses.	
	L.5.1.c	Use verb tense to convey various times, sequences, states, and conditions.	
	L.5.1.d	Recognize and correct inappropriate shifts in verb tense.	
	L.5.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	
	L.5.3	Use knowledge of language and its conventions when writing, speaking, reading, or listening.	

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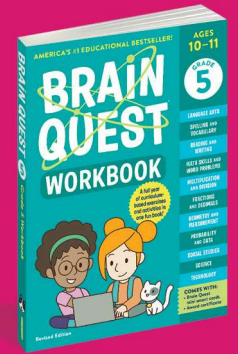
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| GRADE	5	**READING**	**CCSS ELA LITERACY** Reading: Literature
	RL.5.2	Determine a theme of a story, drama, or poem from details in the text, including how characters in a story or drama respond to challenges or how the speaker in a poem reflects upon a topic; summarize the text.	
	RL.5.4	Determine the meaning of words and phrases as they are used in a text, including figurative language such as metaphors and similes.	
	RL.5.6	Describe how a narrator's or speaker's point of view influences how events are described.	
		WRITING	**CCSS ELA LITERACY** Writing
	W.5.3	Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.	
	W.5.3.a	Orient the reader by establishing a situation and introducing a narrator and/or characters; organize an event sequence that unfolds naturally.	
		MATH SKILLS	**CCSS MATH** Number and Operations in Base Ten
	5.NBT.A.1	Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	

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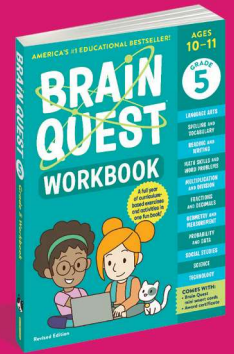
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| GRADE 5	**MULTIPLICATION AND DIVISION**	**CCSS MATH** Number and Operations in Base Ten
5.NBT.A.2	Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.	
5.NBT.B.5	Fluently multiply multi-digit whole numbers using the standard algorithm.	
5.NBT.B.6	Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	
	FRACTIONS AND DECIMALS	**CCSS MATH** Number and Operations in Base Ten and Number and Operations—Fractions
5.NBT.A.3	Read, write, and compare decimals to thousandths.	
5.NBT.A.4	Use place value understanding to round decimals to any place.	
5.NF.B.4	Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.	
	GEOMETRY AND MEASUREMENT	**CCSS MATH** Measurement and Data
5.MD.C.3	Recognize volume as an attribute of solid figures and understand concepts of volume measurement.	
5.MD.C.5	Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.	
	ALGEBRA	**CCSS MATH** Operations and Algebraic Thinking
5.OA.B.3	Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.	

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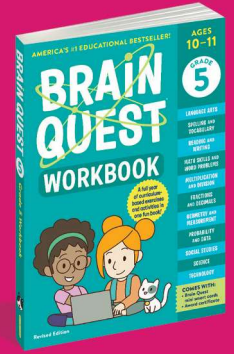
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GRADE 5	**WORD PROBLEMS**	**CCSS MATH** Number and Operations—Fractions
5.NF.B.6	Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	

	SOCIAL STUDIES	**CCSS ELA LITERACY** Reading: Informational Text, Writing, and Literacy in History/Social Studies
RI.5.3	Explain the relationships or interactions between two or more individuals, events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text.	
RI.5.4	Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area.	
RI.5.7	Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.	
W.5.9	Draw evidence from literary or informational texts to support analysis, reflection, and research.	
RH.6.2	Determine the central ideas or information of a primary or secondary source; provide an accurate summary of the source distinct from prior knowledge or opinions.	

	SCIENCE	**NEXT GENERATION SCIENCE STANDARDS (NGSS)**
5-LS2-1	**Matter and Energy in Organisms and Ecosystems** Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	
5-ESS2-1	**Earth's Systems** Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	
MS-ETS1-3	**Engineering Design** Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.	

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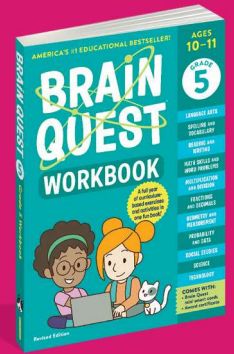
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GRADE	5	TECHNOLOGY	COMPUTER SCIENCE STANDARDS (CSTA)
	2-AP-10	**Algorithms & Programming** Use flowcharts and/or pseudocode to address complex problems as algorithms.	
	1B-AP-14	Observe intellectual property rights and give appropriate attribution when creating or remixing programs.	
	1B-AP-15	Test and debug (identify and fix errors) a program or algorithm to ensure it runs as intended.	