BRAIN QUEST®

Brain Quest Workbook: Fourth Grade

GRADE 4	SPELLING & VOCABULARY	CCSS ELA LITERACY Language
L.4.1.g	Correctly use frequently confused words (e.g., to, too, two; there, their).	
L.4.5.c	Demonstrate understanding of words by relating them to their opposites (antonyms) and to words with similar but not identical meanings (synonyms).	

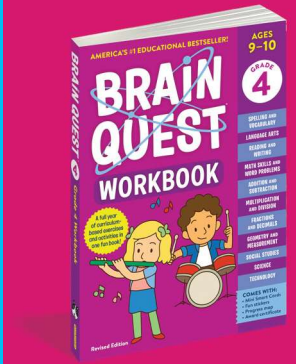|	LANGUAGE ARTS	CCSS ELA LITERACY Language and Writing
L.4.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	
L.4.1.a	Use relative pronouns (who, whose, whom, which, that) and relative adverbs (where, when, why).	
L.4.1.b	Form and use the progressive (e.g., I was walking; I am walking; I will be walking) verb tenses.	
L.4.1.f	Produce complete sentences, recognizing and correcting inappropriate fragments and run-ons.	
L.4.2.a	Use correct capitalization.	
W.4.2.c	Orient the reader by establishing a situation and introducing a narrator and/or characters; organize an event sequence that unfolds naturally.	
W.4.4.a	Use concrete words and phrases and sensory details to convey experiences and events precisely.	
W.4.4.b	Provide a conclusion that follows from the narrated experiences or events.	
W.4.5	Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.	
L.4.5.a	Explain the meaning of simple similes and metaphors (e.g., as pretty as a picture) in context.	
L.4.5.b	Recognize and explain the meaning of common idioms, adages, and proverbs.	

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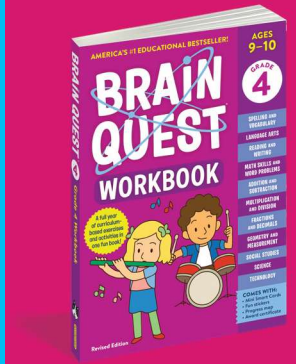
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| GRADE 4	**READING**	**CCSS ELA LITERACY** Reading: Literature and Reading: Informational Text
RL.4.1	Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.	
RL.4.2	Determine a theme of a story, drama, or poem from details in the text; summarize the text.	
RL.4.6	Compare and contrast the point of view from which different stories are narrated, including the difference between first- and third-person narrations.	
RI.4.1	Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.	
RI.4.2	Determine a theme of a story, drama, or poem from details in the text; summarize the text.	
RI.4.3	Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text.	
RI.4.5	Describe the overall structure (e.g., chronology, comparison, cause/effect, problem/solution) of events, ideas, concepts, or information in a text or part of a text.	
RI.4.7	Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears.	

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GRADE 4	**WRITING**	**CCSS ELA LITERACY** Writing
W.4.1.a	Introduce a topic or text clearly, state an opinion, and create an organizational structure in which related ideas are grouped to support the writer's purpose.	
W.4.1.b	Provide reasons that are supported by facts and details.	
W.4.1.d	Provide a concluding statement or section related to the opinion presented.	
W.4.2	Write informative/explanatory texts to examine a topic and convey ideas and information clearly.	
W.4.3	Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.	
W.4.3.a	Orient the reader by establishing a situation and introducing a narrator and/or characters; organize an event sequence that unfolds naturally.	
W.4.3.d	Use concrete words and phrases and sensory details to convey experiences and events precisely.	
W.4.3.e	Provide a conclusion that follows from the narrated experiences or events.	
W.4.4	Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.	

|	**MATH SKILLS**	**CCSS MATH** Number and Operations in Base Ten and Operations and Algebraic Thinking
4.NBT.A.2	Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.	
4.NBT.A.3	Use place value understanding to round multi-digit whole numbers to any place.	
4.OA.B.4	Find all factor pairs for a whole number in the range 1–100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1–100 is prime or composite.	

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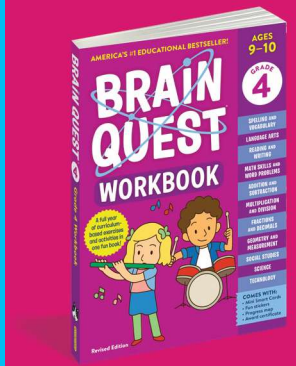
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| GRADE 4	**ADDITION AND SUBTRACTION**	**CCSS MATH** Number and Operations in Base Ten
4.NBT.B.4	Fluently add and subtract multi-digit whole numbers using the standard algorithm.	
	MULTIPLICATION AND DIVISION	**CCSS MATH** Number and Operations in Base Ten and Operations and Algebraic Thinking
4.NBT.B.5	Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	
4.NBT.B.6	Find whole-number quotients and remainders with up to four-digit dividends and one-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 Operation—Fractions
4.NF.B.3.a	Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.	
4.NF.B.3.c	Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.	
4.NF.B.4	Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.	
4.NF.C.6	Use decimal notation for fractions with denominators 10 or 100.	
	GEOMETRY AND MEASUREMENT	**CCSS MATH** Geometry
4.G.A.1	Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	

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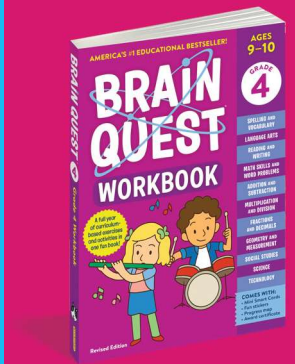
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GRADE	4	SOCIAL STUDIES	CCSS ELA LITERACY Reading: Informational Text
	RI.4.1		Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.
	RI.4.7		Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears.

		SCIENCE	NEXT GENERATION SCIENCE STANDARDS (NGSS)
4-ESS2-1		**Earth's Systems**	Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.
4-ESS2-2			Analyze and interpret data from maps to describe patterns of Earth's features.
4-PS3-2		**Energy**	Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.
4-LS1-1		**Structure, Function, and Information Processing**	Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.
4-PS4-2		**Waves and Their Applications**	Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.

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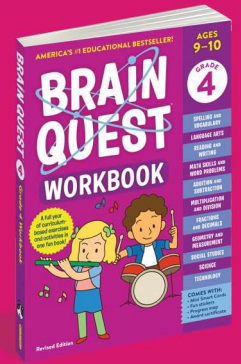
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GRADE	4	TECHNOLOGY	COMPUTER SCIENCE STANDARDS (CSTA)
	1B-AP-08	**Algorithms & Programming** Compare and refine multiple algorithms for the same task and determine which is the most appropriate.	
	1B-AP-12	Modify, remix, or incorporate portions of an existing program into one's own work, to develop something new or add more advanced features.	
	1B-NI-05	**Networks & the Internet** Discuss real-world cybersecurity problems and how personal information can be protected.	