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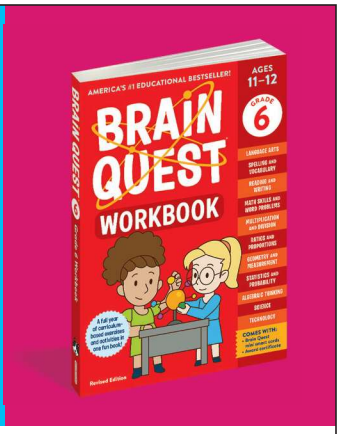

Brain Quest Workbook: Sixth Grade

GRADE 6	SPELLING & VOCABULARY	CCSS ELA LITERACY Language
L.6.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.	
L.6.4.b	Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., audience, auditory, audible).	
	LITERATURE COMPREHENSION	**CCSS ELA LITERACY Reading: Literature and Language**
RL.6.1	Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.	
L.6.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	
	RESEARCH AND ANALYSIS	**CCSS ELA LITERACY Writing**
W.6.1	Write arguments to support claims with clear reasons and relevant evidence.	
W.6.1.a	Introduce claim(s) and organize the reasons and evidence clearly.	
	WRITING	**CCSS ELA LITERACY Writing**
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.	
6.2.a	Introduce a topic; 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.	
6.2.b	Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples.	
6.2.f	Provide a concluding statement or section that follows from the information or explanation presented.	
6.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	

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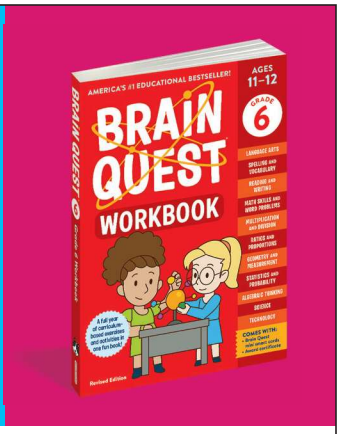

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GRADE 6	PRONOUNS AND PUNCTUATION	CCSS ELA LITERACY Language
L.6.1.a	Ensure that pronouns are in the proper case (subjective, objective, possessive).	
L.6.1.c	Recognize and correct inappropriate shifts in pronoun number and person.	
L.6.2.a	Use punctuation (commas, parentheses, dashes) to set off nonrestrictive/parenthetical elements.	

	METAPHOR AND MEANING	CCSS ELA LITERACY Language
L.6.5	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	
L.6.5.a	Interpret figures of speech (e.g., personification) in context.	

	MATH SKILLS	CCSS MATH The Number System
6.NS.B.2	Fluently divide multi-digit numbers using the standard algorithm.	
6.NS.B.3	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	

	THE NUMBER SYSTEM	CCSS MATH The Number System
6.NS.C.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.	
6.NS.C.6.b	Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	
6.NS.C.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.	

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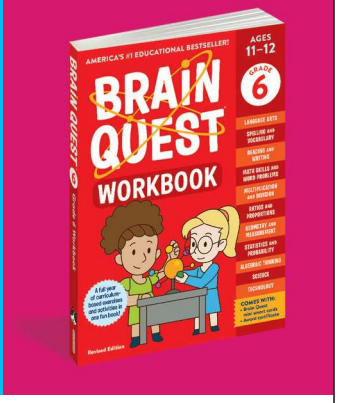

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GRADE 6	EXPRESSIONS AND EQUATIONS	CCSS MATH Stastistics and Probability
6.SP.B.5	Summarize numerical data sets in relation to their context.	

	SOCIAL STUDIES	CCSS ELA LITERACY Literacy in History/Social Studies and Writing
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.	
RH.6.4	Determine the meaning of words and phrases as they are used in a text, including vocabulary specific to domains related to history/social studies.	
RH.6.7	Integrate visual information (e.g., in charts, graphs, photographs, videos, or maps) with other information in print and digital texts.	
W.6.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	

	SCIENCE	NEXT GENERATION SCIENCE STANDARDS (NGSS)
MS-ESS3-1	**Earth's Systems** Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes	
MS-LS1-2	**Structure, Function, and Information Processing** Develop and use a model to describe the function of a cell as a whole and ways the parts of cells contribute to the function.	
MS-PS1-1	**Structure and Properties of Matter** Develop models to describe the atomic composition of simple molecules and extended structures.	
MS-PS3-5	**Energy** Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.	

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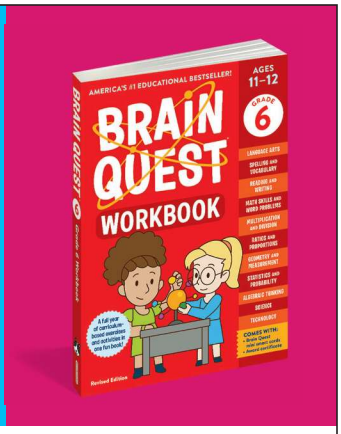

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GRADE 6	TECHNOLOGY	COMPUTER SCIENCE STANDARDS (CSTA)
2-AP-10	**Algorithms & Programming** Use flowcharts and/or pseudocode to address complex problems as algorithms.	
2-AP-12	Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.	
2-AP-13	Students should create procedures and/or functions that are used multiple times within a program to repeat groups of instructions.	
2-AP-14	Create procedures with parameters to organize code and make it easier to reuse.	
2-CS-01	**Computing Systems** Recommend improvements to the design of computing devices, based on an analysis of how users interact with the devices.	
2-IC-23	**Impacts of Computing** Describe tradeoffs between allowing information to be public and keeping information private and secure.	
2-NI-06	**Networks & the Internet** Apply multiple methods of encryption to model the secure transmission of information.	

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