

Interact Middle School Library Grades: 5, 6, 7

States: Common Core State Standards

Interact Middle School Library: ALGEBRA MYSTERY MAZE: Solving Algebra Chains within a Maze Competition

Summary: In cooperative groups, students take turns as Measurer, Designer, and Recorder to quickly and accurately solve series of algebraic equations and word problems, as well as navigate and design mazes to earn the most centimeter lengths for their team. (9781573363815-INT936)

Common Core State Standards Language Arts

Grade: 5 - Adopted 2010

STRAND / DOMAIN	CCSS.ELA-Literacy.RI.5	Reading Standards for Informational Text
CATEGORY / CLUSTER		Integration of Knowledge and Ideas
STANDARD	CCSS.ELA-Literacy.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.
STANDARD	CCSS.ELA-Literacy.RI.5.8	Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point(s).
STANDARD	CCSS.ELA-Literacy.RI.5.9	Integrate information from several texts on the same topic in order to write or speak about the subject knowledgeably.
STRAND / DOMAIN	CCSS.ELA-Literacy.RI.5	Reading Standards for Informational Text
CATEGORY / CLUSTER		Range of Reading and Level of Text Complexity
STANDARD	CCSS.ELA-Literacy.RI.5.10	By the end of the year, read and comprehend informational texts, including history/social studies, science, and technical texts, at the high end of the grades 4-5 text complexity band independently and proficiently.
STRAND / DOMAIN	CCSS.ELA-Literacy.RF.5	Reading Standards: Foundational Skills
CATEGORY / CLUSTER		Fluency
STANDARD	CCSS.ELA-Literacy.RF.5.4	Read with sufficient accuracy and fluency to support comprehension.
EXPECTATION	CCSS.ELA-Literacy.RF.5.4a	Read on-level text with purpose and understanding.
STRAND / DOMAIN	CCSS.ELA-Literacy.W.5	Writing Standards
CATEGORY / CLUSTER		Text Types and Purposes
STANDARD	CCSS.ELA-Literacy.W.5.2	Write informative/explanatory texts to examine a topic and convey ideas and information clearly.
EXPECTATION	CCSS.ELA-Literacy.W.5.2b	Develop the topic with facts, definitions, concrete details, quotations, or other information and examples related to the topic.
STRAND / DOMAIN	CCSS.ELA-Literacy.W.5	Writing Standards

CATEGORY / CLUSTER		Production and Distribution of Writing
STANDARD	CCSS.ELA-Literacy.W.5.4	Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1-3 above.)
STRAND / DOMAIN	CCSS.ELA-Literacy.W.5	Writing Standards
CATEGORY / CLUSTER		Research to Build and Present Knowledge
STANDARD	CCSS.ELA-Literacy.W.5.7	Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.
STANDARD	CCSS.ELA-Literacy.W.5.8	Recall relevant information from experiences or gather relevant information from print and digital sources; summarize or paraphrase information in notes and finished work, and provide a list of sources.
STRAND / DOMAIN	CCSS.ELA-Literacy.W.5	Writing Standards
CATEGORY / CLUSTER		Research to Build and Present Knowledge
STANDARD	CCSS.ELA-Literacy.W.5.9	Draw evidence from literary or informational texts to support analysis, reflection, and research.
EXPECTATION	CCSS.ELA-Literacy.W.5.9b	Apply grade 5 reading standards to informational texts (e.g., "Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point[s]").
STRAND / DOMAIN	CCSS.ELA-Literacy.W.5	Writing Standards
	CCSS.ELA-Literacy.W.5	Writing Standards Range of Writing
DOMAIN CATEGORY /	CCSS.ELA-Literacy.W.5 CCSS.ELA-Literacy.W.5.10	
CATEGORY / CLUSTER		Range of Writing 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,
CATEGORY / CLUSTER STANDARD STRAND /	CCSS.ELA-Literacy.W.5.10	Range of Writing 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.
CATEGORY / CLUSTER STANDARD STRAND / DOMAIN CATEGORY /	CCSS.ELA-Literacy.W.5.10	Range of Writing Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences. Speaking and Listening Standards
CATEGORY / CLUSTER STANDARD STRAND / DOMAIN CATEGORY / CLUSTER STANDARD	CCSS.ELA-Literacy.W.5.10 CCSS.ELA-Literacy.SL.5	Range of Writing Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences. Speaking and Listening Standards Comprehension and Collaboration Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and
CATEGORY / CLUSTER STANDARD STRAND / DOMAIN CATEGORY / CLUSTER STANDARD EXPECTATION	CCSS.ELA-Literacy.W.5.10 CCSS.ELA-Literacy.SL.5 CCSS.ELA-Literacy.SL.5.1	Range of Writing Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences. Speaking and Listening Standards Comprehension and Collaboration Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under
CATEGORY / CLUSTER STANDARD STRAND / DOMAIN CATEGORY / CLUSTER STANDARD EXPECTATION	CCSS.ELA-Literacy.W.5.10 CCSS.ELA-Literacy.SL.5 CCSS.ELA-Literacy.SL.5.1 CCSS.ELA-Literacy.SL.5.1a	Range of Writing Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences. Speaking and Listening Standards Comprehension and Collaboration Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion. Follow agreed-upon rules for discussions and carry out
CATEGORY / CLUSTER STANDARD STRAND / DOMAIN CATEGORY / CLUSTER STANDARD EXPECTATION	CCSS.ELA-Literacy.SL.5 CCSS.ELA-Literacy.SL.5.1 CCSS.ELA-Literacy.SL.5.1a CCSS.ELA-Literacy.SL.5.1b CCSS.ELA-Literacy.SL.5.1c	Range of Writing Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences. Speaking and Listening Standards Comprehension and Collaboration Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion. Follow agreed-upon rules for discussions and carry out assigned roles. Pose and respond to specific questions by making comments that contribute to the discussion and elaborate on the remarks

STRAND / DOMAIN	CCSS.ELA-Literacy.RI.6	Reading Standards for Informational Text
CATEGORY / CLUSTER		Integration of Knowledge and Ideas
STANDARD	CCSS.ELA-Literacy.RI.6.7	Integrate information presented in different media or formats (e.g., visually, quantitatively) as well as in words to develop a coherent understanding of a topic or issue.
STRAND / DOMAIN	CCSS.ELA-Literacy.W.6	Writing Standards
CATEGORY / CLUSTER		Text Types and Purposes

STANDARD	CCSS.ELA-Literacy.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.
EXPECTATION	CCSS.ELA-Literacy.W.6.2b	Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples.
STRAND / DOMAIN	CCSS.ELA-Literacy.W.6	Writing Standards
CATEGORY / CLUSTER		Production and Distribution of Writing
STANDARD	CCSS.ELA-Literacy.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.)
STRAND / DOMAIN	CCSS.ELA-Literacy.W.6	Writing Standards
CATEGORY / CLUSTER		Research to Build and Present Knowledge
STANDARD	CCSS.ELA-Literacy.W.6.7	Conduct short research projects to answer a question, drawing on several sources and refocusing the inquiry when appropriate.
STANDARD	CCSS.ELA-Literacy.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.
STRAND / DOMAIN	CCSS.ELA-Literacy.W.6	Writing Standards
CATEGORY / CLUSTER		Range of Writing
STANDARD	CCSS.ELA-Literacy.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.
STRAND / DOMAIN	CCSS.ELA-Literacy.SL.6	Speaking and Listening Standards
CATEGORY / CLUSTER		Comprehension and Collaboration
STANDARD	CCSS.ELA-Literacy.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.
EXPECTATION	CCSS.ELA-Literacy.SL.6.1a	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.
EXPECTATION	CCSS.ELA-Literacy.SL.6.1b	Follow rules for collegial discussions, set specific goals and deadlines, and define individual roles as needed.
EXPECTATION	CCSS.ELA-Literacy.SL.6.1c	Pose and respond to specific questions with elaboration and detail by making comments that contribute to the topic, text, or issue under discussion.
STRAND / DOMAIN	CCSS.ELA-Literacy.SL.6	Speaking and Listening Standards
CATEGORY / CLUSTER		Presentation of Knowledge and Ideas
STANDARD	CCSS.ELA-Literacy.SL.6.6	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.
	Grade: 7	' - Adopted 2010

Grade: 7 - Adopted 2010

STRAND / DOMAIN	CCSS.ELA-Literacy.RI.7	Reading Standards for Informational Text
CATEGORY / CLUSTER		Key Ideas and Details
STANDARD	CCSS.ELA-Literacy.RI.7.3	Analyze the interactions between individuals, events, and ideas in a text (e.g., how ideas influence individuals or events, or how individuals influence ideas or events).

STRAND / DOMAIN	CCSS.ELA-Literacy.W.7	Writing Standards
CATEGORY / CLUSTER		Text Types and Purposes
STANDARD	CCSS.ELA-Literacy.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.
EXPECTATION	CCSS.ELA-Literacy.W.7.2b	Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples.
STRAND / DOMAIN	CCSS.ELA-Literacy.W.7	Writing Standards
CATEGORY / CLUSTER		Production and Distribution of Writing
STANDARD	CCSS.ELA-Literacy.W.7.4	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.)
STRAND / DOMAIN	CCSS.ELA-Literacy.W.7	Writing Standards
CATEGORY / CLUSTER		Research to Build and Present Knowledge
STANDARD	CCSS.ELA-Literacy.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.
STANDARD	CCSS.ELA-Literacy.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.
STRAND / DOMAIN	CCSS.ELA-Literacy.W.7	Writing Standards
	CCSS.ELA-Literacy.W.7	
DOMAIN CATEGORY /	CCSS.ELA-Literacy.W.7 CCSS.ELA-Literacy.W.7.10	Writing Standards
CATEGORY / CLUSTER		Writing Standards Range of Writing 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,
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CATEGORY / CLUSTER STANDARD STRAND / DOMAIN CATEGORY / CLUSTER STANDARD EXPECTATION	CCSS.ELA-Literacy.W.7.10 CCSS.ELA-Literacy.SL.7 CCSS.ELA-Literacy.SL.7.1	Writing Standards Range of Writing Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences. Speaking and Listening Standards Comprehension and Collaboration 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. 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
CATEGORY / CLUSTER STANDARD STRAND / DOMAIN CATEGORY / CLUSTER STANDARD EXPECTATION	CCSS.ELA-Literacy.W.7.10 CCSS.ELA-Literacy.SL.7 CCSS.ELA-Literacy.SL.7.1 CCSS.ELA-Literacy.SL.7.1	Writing Standards Range of Writing Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences. Speaking and Listening Standards Comprehension and Collaboration 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. 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 discussions. Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as

Mathematics

Grade: 5 - Adopted 2010

STRAND / DOMAIN	CCSS.Math.Practice	Mathematical Practices
CATEGORY / CLUSTER	CCSS.Math.Practice.MP1	Make sense of problems and persevere in solving them.

CATEGORY / CLUSTER	CCSS.Math.Practice.MP2	Reason abstractly and quantitatively.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP3	Construct viable arguments and critique the reasoning of others.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP5	Use appropriate tools strategically.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP6	Attend to precision.
STRAND / DOMAIN	CCSS.Math.Content.5.OA	Operations and Algebraic Thinking
CATEGORY / CLUSTER	CCSS.Math.Content.5.OA.A	Write and interpret numerical expressions.
STANDARD	CCSS.Math.Content.5.OA.A.1	Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.

Grade: 6 - Adopted 2010

	Grade: 6	- Adopted 2010
STRAND / DOMAIN	CCSS.Math.Practice	Mathematical Practices
CATEGORY / CLUSTER	CCSS.Math.Practice.MP1	Make sense of problems and persevere in solving them.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP2	Reason abstractly and quantitatively.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP3	Construct viable arguments and critique the reasoning of others.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP5	Use appropriate tools strategically.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP6	Attend to precision.
STRAND / DOMAIN	CCSS.Math.Content.6.RP	Ratios and Proportional Relationships
CATEGORY / CLUSTER	CCSS.Math.Content.6.RP.A	Understand ratio concepts and use ratio reasoning to solve problems.
STANDARD	CCSS.Math.Content.6.RP.A.2	Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 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."
STRAND / DOMAIN	CCSS.Math.Content.6.RP	Ratios and Proportional Relationships
CATEGORY / CLUSTER	CCSS.Math.Content.6.RP.A	Understand ratio concepts and use ratio reasoning to solve problems.
STANDARD	CCSS.Math.Content.6.RP.A.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.
EXPECTATION	CCSS.Math.Content.6.RP.A.3b	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?
STRAND / DOMAIN	CCSS.Math.Content.6.EE	Expressions and Equations
CATEGORY / CLUSTER	CCSS.Math.Content.6.EE.A	Apply and extend previous understandings of arithmetic to algebraic expressions.
STANDARD	CCSS.Math.Content.6.EE.A.2	Write, read, and evaluate expressions in which letters stand for numbers.
EXPECTATION	CCSS.Math.Content.6.EE.A.2c	Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). For example, use the formulas $V = s^3$ and $A = 6 \ s^2$ to find the volume and surface area of a cube with sides of length $s = 1/2$.
STRAND /	CCSS.Math.Content.6.EE	Expressions and Equations

DOMAIN		
CATEGORY / CLUSTER	CCSS.Math.Content.6.EE.B	Reason about and solve one-variable equations and inequalities.
STANDARD	CCSS.Math.Content.6.EE.B.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.
STANDARD	CCSS.Math.Content.6.EE.B.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.
STANDARD	CCSS.Math.Content.6.EE.B.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.
STRAND / DOMAIN	CCSS.Math.Content.6.EE	Expressions and Equations
CATEGORY / CLUSTER	CCSS.Math.Content.6.EE.C	Represent and analyze quantitative relationships between dependent and independent variables.
STANDARD	CCSS.Math.Content.6.EE.C.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.

Grade: 7 - Adopted 2010

STRAND / DOMAIN	CCSS.Math.Practice	Mathematical Practices
CATEGORY / CLUSTER	CCSS.Math.Practice.MP1	Make sense of problems and persevere in solving them.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP2	Reason abstractly and quantitatively.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP3	Construct viable arguments and critique the reasoning of others.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP5	Use appropriate tools strategically.
CATEGORY / CLUSTER	CCSS.Math.Practice.MP6	Attend to precision.
STRAND / DOMAIN	CCSS.Math.Content.7.RP	Ratios and Proportional Relationships
CATEGORY / CLUSTER	CCSS.Math.Content.7.RP.A	Analyze proportional relationships and use them to solve realworld and mathematical problems.
STANDARD	CCSS.Math.Content.7.RP.A.1	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 1/2 mile in each 1/4 hour, compute the unit rate as the complex fraction (1/2)/(1/4) miles per hour, equivalently 2 miles per hour.
STRAND / DOMAIN	CCSS.Math.Content.7.EE	Expressions and Equations
CATEGORY / CLUSTER	CCSS.Math.Content.7.EE.A	Use properties of operations to generate equivalent expressions.
STANDARD	CCSS.Math.Content.7.EE.A.2	Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related. For example, a + 0.05a = 1.05a means that "increase by 5%" is the same as "multiply by 1.05."
STRAND / DOMAIN	CCSS.Math.Content.7.EE	Expressions and Equations
CATEGORY /	CCSS.Math.Content.7.EE.B	Solve real-life and mathematical problems using numerical

CLUSTER		and algebraic expressions and equations.
STANDARD	CCSS.Math.Content.7.EE.B.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.
EXPECTATION	CCSS.Math.Content.7.EE.B.4a	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?