

SAUSD Common Core Aligned Curriculum Map: Math Grade 5 Year at a Glance

Title	Time	Performance Task	Big Idea	Essential Questions	Core Texts
Unit 1: Whole Numbers and Decimals (Number & Operations Base Ten)	1 week Sept	Compare populations of state capitals by converting them to millions with decimal notation.	Different values can be represented in many ways.	<ul style="list-style-type: none"> • What patterns can we identify in the base ten system? • How does the position of a number determine its value? • How can we simplify the problem solving process? • What kinds of models can be used to represent decimals? 	HM Chapter 3
Unit 2: Addition & Subtraction of Decimals (Operations & Algebraic Thinking/ Number & Operations Base Ten)	3 weeks Sept	Plan a trip for your family, adding the mileage between cities, using decimal notation.	Real-world problems can be solved by combining or separating groups.	<ul style="list-style-type: none"> • How can addition and subtraction of decimals be represented by objects, pictures, words, and numbers? • What are some ways that decimals can be combined or separated? • How are decimals used to represent numbers in real world situations? 	HM Chapter 5, 12
Unit 3: Addition and Subtraction of Fractions (Number & Operations–Fractions)	5 weeks Oct/Nov	Choose the items you would take with you as an immigrant from Europe where each person is allotted a certain weight for all their belongings.	Real-world problems can be solved by combining or separating groups.	<ul style="list-style-type: none"> • How are fractions related to decimals? • How are common denominators used to compare fractions? • What are some ways that fractions can be combined or separated? • How are fractions used to represent numbers in real world situations? 	HM Chapters 2, 4, 7, 8, 9
Unit 4: Multiplication and Division of Whole Numbers (Number & Operations Base Ten)	4 weeks Nov/Dec	Compare the areas of various states in square miles.	Real-world problems can be solved by combining or separating groups.	<ul style="list-style-type: none"> • What patterns do you notice when multiplying or dividing by the powers of ten? • How does using the algorithm help you to multiply efficiently? • Compare and explain how the size of factors is related to the size of products. • How can you apply the conversion of measurement units to real-life problems? 	HM Chapters 1, 6, 21
Unit 5: Volume (Measurement & Data)	3 weeks January	Estimate the number of linking cubes that will fill a classroom.	Objects can be measured and compared by their attributes.	<ul style="list-style-type: none"> • What is volume? • How are area and volume alike and different? • How do you measure volume? • Why is volume represented with cubic units? • Does volume change when you change the measurement material? Why or why not? • How can you find the volume of cubes and rectangular prisms? • Why is it important to know how to measure volume? 	Getting to the Core Volume Unit

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Unit 6: Multiplication and Division of Decimals (Number & Operations Base Ten)	4 weeks Jan/Feb	Analyze monthly plans for a museum to determine the best value for your family.	Real-world problems can be solved by combining and separating groups.	<ul style="list-style-type: none"> • What patterns do you notice in the placement of the decimal when multiplying or dividing by the powers of ten? • How is repeated addition related to multiplication and how is repeated subtraction related to division? • How can you apply the conversion of measurement units to real-life problems? 	Getting to the Core Multiplication & Division of Decimals Unit
Unit 7: Multiplication and Division of Fractions (Number & Operations—Fractions)	4 weeks March	Convert the measurement of a recipe to multiple servings.	Parts build up to wholes, while wholes break down to parts.	<ul style="list-style-type: none"> • What is the whole? What is the unit fraction? • What is the relationship between the whole and the fraction? • How can you apply the multiplication and division of fractions to real life situations? 	Getting to the Core Multiplication & Division of Fractions Unit
Unit 8: Graphing on the Coordinate Plane (Geometry)	3 weeks April	Graph an equation on the coordinate grid to represent a real life situation.	The relationship between values can be represented visually.	<ul style="list-style-type: none"> • How is the coordinate system used? • How can you identify relationships between pairs of numbers in a table? • How are lists, tables, charts, and diagrams used to illustrate mathematical relationships? 	HM Chapters 17, 27, 28
Unit 9: Two-Dimensional Shapes (Geometry)	3 weeks May	Create a Venn Diagram showing placement of two-dimensional shapes by category.	Objects can be described, classified, and analyzed by their characteristics.	<ul style="list-style-type: none"> • How do parallel, perpendicular, and congruent lines relate and help identify two-dimensional shapes? • How do characteristics help identify geometric figures? • How can you classify two-dimensional shapes in a hierarchy based on their properties? 	HM Chapters 18, 19, 20

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Topics no longer an expectation for fifth grade: negative numbers, percent, probability, statistics