4th Grade Math Syllabus

| Investigation Units Covered | Math Concepts |
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| Invest. Unit 5, Supplement with Envision Topic 4 (Number sense and complex addition and subtraction) | Using multiples of 10, 100, and 1,000, to add, subtract, and sequence numbers Identifying, describing, and comparing addition and subtraction strategies by focusing on how each strategy starts Solving subtraction problems by breaking numbers apart |
| Invest. Unit 1, Supplement with Envision Topic 6-2 (Multiplication representations) | Using arrays to model multiplication situations Breaking apart arrays to find the product Finding multiples and factors of a number |
| Invest. Unit 3, Supplement with Envision Topic 8-2 (Multiplication algorithms) | Developing strategies for multiplying that involve breaking apart numbers Use pictures, diagrams, or models to represent and solve division story problems Writing story problems and working with remainders in the context of the story Multiplying multiples of ten and 2-digit numbers |
| Invest. Unit 4 (Units of measurement and angles) | Using U.S. standard and metric units to accurately measure length Finding perimeter using square units and estimating measurement lengths Working with polygons and combining polygons to make other polygons Measuring and combining angles using polygons Measuring the area of polygons and finding symmetry Recognizing acute, right, and obtuse angles |
| Invest. Unit 8 (Multiplication algorithms) | Solving 2-digit multiplication problems by breaking numbers apart Solving division problems by making groups and using strategies |
| Invest. Unit 6 (Basic fraction operations) | Finding fractions of an area with same parts or different wholes Ordering, comparing, adding, subtracting, and multiplying fractions Comparing and combining decimals |
| Invest. Unit 7 (Volume of cubes) | Working with cubes and finding the volume of boxes and equivalent measurements |
| Invest. Unit 9 (Comparing data) | Describing the relationship between two quantities |

| | Plotting points on a graph and comparing graph to the situation it represents |
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| Invest. Unit 2 (Reading and communicating data) | Describing and representing data Making and reading graphs and line plots to determine facts about the data Develop own data questions and analyze results |