

5th Grade Essential Questions

Unit 1: Place Value of Whole Numbers and Decimals

- How can you describe the relationship between any two place-value positions?
- How can you use exponents to represent powers of 10?
- How do you read, write and compare (represent) whole numbers and decimals to the thousandths place?
- How can use place value to round decimals to a given place value?

Unit 2: Addition and Subtraction of Decimals

- How can you describe relationships between two decimal place values?
- How can you use place value to compare and order decimals?
- How can you use base-ten blocks to model decimal addition/subtraction?

Unit 3: Multiplication and Division of Whole Numbers

- How can you use a basic fact or diagram (array area model) and a pattern to multiply a two digit number?
- How can your understanding of partial products and place value inform your use of the standard algorithm?
- How do you multiply by two digit numbers?
- How is multiplication used to solve a division problem?
- How can you use partial quotients to divide by two digit divisors?

Unit 4: Division and Multiplication of Fractions

- How can the strategy “draw a diagram” help you solve fraction division problems?
- How does a fraction represent division?

- How can you use a model to show the fractional part of an amount (Whole number or fraction)?

Unit 5: Addition and Subtraction of Fractions

- How can you use models to add and subtract fractions that have different denominators?
- How can you use your knowledge of multiplication and factors to rewrite a pair of fractions so they have a common denominator?
- Can you explain why the denominators are not combined?
- How can you use renaming to find the difference of two mixed numbers?

Unit 6: Multiplication and Division of Decimals

- How can powers of ten help you determine the digits' placement in relation to the decimal point?
- How can you use drawings/place value blocks to multiply/divide a decimal and whole number?
- How can you use models to divide by decimals?

Unit 7: Metric System and Customary Conversions

- How can you compare and convert metric units using base ten multiplication and division knowledge?
- How can you compare and convert customary units of length, capacity, and weight?
- How can you solve multistep problems that include measurement conversions?

Unit 8: Volume

- What is a unit cube and how can you use it to build a solid figure?
- How can you use unit cubes to find the volume of a rectangular prisms and cubes?
- How can you use a formula to find the volume of a rectangular prism?
- How does knowing the area of a figure help you find the volume of a rectangular prism?

Unit 9: Graphing on a coordinate Plane

- How can you identify and plot points on a coordinate grid?
- How can you use a coordinate grid to display data?
- How can you identify a relationship within the numerical patterns they generate?

Unit 10: Two-Dimensional Shapes

- How can you identify and classify polygons?
- How can you classify and compare triangles and quadrilaterals?