

5th Grade Math Instructional Calendar 2009-2010

Unit 1 - Groovy Graphing - 4 weeks

8/10-9/4

GPS - M5A1, M5N5, M5D1, M5D2

Vocabulary - circle graph, tally mark, line graph, frequency table, percent, pictograph, line plot, bar graph, data, Venn diagram

Essential Questions: How is data collected? How do I conduct an experiment or survey? How do I determine who should take my survey and what my survey should be about? What is a sample? How do I determine the most appropriate graph to use? How will I interpret a set of data? Are there patterns in a set of data? How do graphs help to explain real-world situations?

Unit 2 - Divine Decimals - 7 weeks

9/8-10/23

GPS - M5N2, M5N3, M5A1

Vocabulary - commutative property of multiplication, decimal fraction, dividend, divisor, factor, hundred thousands, hundreds, hundredths, millions, multiple, multiplier, ones, place value, product, quotient, remainder, ten thousands, tens, tenths, thousands

Essential Questions: How are multiplication and division related? How are factors and multiples related to multiplication and division? How does the location of digit in the number affect the size of a number? Why does placement or position of a number matter? How is place value different from number value? What happens when you multiply decimals by powers of 10? What happens when you multiply a decimal by a decimal? What happens when you divide a decimal by a decimal? What are the various uses of decimals? How do the rules of multiplying whole numbers relate to multiplying decimals? How can I use models to demonstrate decimal values?

Unit 3 - Funky Fractions - 7 weeks

10/26-12/18

GPS - M5N1, M5N4, M5A1

Vocabulary - simplify, common denomination, greatest common factor, least common multiple, improper fraction, proper fraction, divisibility, multiple, factor

Essential Questions: How can I determine whether a number is odd or even? How do I know if a number is prime or composite? How can I find

equivalent fractions? How do I determine which factors a number is divisible by? How does knowing the divisibility rules help me solve problems? How are factors and multiples represented? How are fractions and decimals related?

Unit 4 - Positively Perfect Plane Figures - 6 weeks

1/5-2/8

GPS - M5M1, M5G1, M5G2, M5A1,

Vocabulary - congruence, polygon, irregular polygon, regular polygon, circumference, diameter, pi, tiling

Essential Questions: How is the area of a rectangle useful in finding the area of a parallelogram? How is the area of a rectangle useful in finding the area of a triangle? Why is the area of a circle measured in "square units" when a circle isn't square? How can you find the area of regular and irregular polygons when you don't have a specific formula? How can you verify that two figures are congruent? How are circumference, diameter, and pi related?

Unit 5 - Super Solid Figures - 6 weeks

2/16-3/26

GPS - M5M3, M5M4

Vocabulary - capacity, cube, cubic centimeter, cubic meter, cubic foot, cubic inch, cubic yard, cup, edge, face, fluid ounce, gallon, liter, millimeter, pint, quart, rectangular prism, vertex, volume

Essential Questions: What is the difference, mathematically speaking, between the "volume of a coffee mug" and the "capacity of a coffee mug?" How can you find the volume of cubes and rectangular prisms? Why is volume represented with cubic units? Why do we need to be able to convert between capacity units of measurement?

Unit 6 - Putting It All Together - 7 weeks

3/29-5/21

Review and preview