

SAINT JOSEPH ELEMENTARY SCHOOL

| CONTENT | | | | | CATHOLIC IDENTITY | MATHEMATICS STANDARDS | | | | | |
|--|---|---|---|-----------------------------|---|-----------------------|---------------------------------|-------------------------------|-------------------------------|--------------------|----------|
| Month & Overarching Question | Content | Essential Questions | Books & Materials | Books & Materials Continued | Essential Questions | The Number System | Operations & Algebraic Thinking | Number Operations in Base Ten | Number Operations - Fractions | Measurement & Data | Geometry |
| SEPTEMBER | | | | | | | | | | | |
| Numbers in life, why we need them, why we need to be able to solve a multi step problem. | All operations with whole numbers Order of operations Exponents | Can I write and understand a multi step problem? Do I understand "PEMDAS"? Can I see the pattern of 10 times or divided by 10 with place value? Can I multiply and divide multi digit numbers? | (enVisionMath Common Core 5 Realize Edition - Topic 1 Place Value, Topic 3 Multiplying Whole Numbers, Topic 4 Dividing by 1-Digit Divisors, Topic 5 Dividing by 2-Digit Divisors), Class notes, Board Problems. | | How can we use mathematics to help explain the world God created? | | 5.OA.1-2 | 5.NBT.1-2, 5, 6 | | | |
| OCTOBER | | | | | | | | | | | |
| Fractions, who cares? We do! Sharing. | All operations with fractions | Do I understand why fractions need common denominators for addition and subtraction? Can I find one? Do I understand why multiplying by a fraction results in a smaller number? Do I understand why dividing by a fraction results in a larger number? Can I compare fractions? Can I perform number operations with fractions? | (enVisionMath Common Core 5 Realize Edition - Topic 9 Adding and Subtracting Fractions, Topic 10 Adding and Subtracting Mixed Numbers, Topic 11 Multiplying and Dividing Fractions and Mixed Numbers), Class notes, Board Problems. | | What are some events in your Catholic faith that involve sharing? | | | | 5.NF.1-4A, 5-7C | | |

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|---|--|---|---|--|---|--------------------------|--|--------------------------------------|--------------------------------------|-------------------------------|-----------------|
| <i>Month & Overarching Question</i> | <i>Content</i> | <i>Essential Questions</i> | <i>Books & Materials</i> | <i>Books & Materials Continued</i> | <i>Essential Questions</i> | <i>The Number System</i> | <i>Operations & Algebraic Thinking</i> | <i>Number Operations in Base Ten</i> | <i>Number Operations - Fractions</i> | <i>Measurement & Data</i> | <i>Geometry</i> |
| NOVEMBER | | | | | | | | | | | |
| Fractions, who cares? We do! Sharing. | All operations with fractions | Do I understand why fractions need common denominators for addition and subtraction? Can I find one? Do I understand why multiplying by a fraction results in a smaller number? Do I understand why dividing by a fraction results in a larger number? Can I compare fractions? Can I perform number operations with fractions? | (enVisionMath Common Core 5 Realize Edition - Topic 9 Adding and Subtracting Fractions, Topic 10 Adding and Subtracting Mixed Numbers, Topic 11 Multiplying and Dividing Fractions and Mixed Numbers), Class notes, Board Problems. | | What are some events in your Catholic faith that involve sharing? | | | | 5.NF.1-4A, 5-7C | | |
| DECEMBER | | | | | | | | | | | |
| Decimals, where are they? | All operations with fractions All operations with decimals Place value and expanded form | Do I understand that decimals are fractions based on powers of 10? Can I compare decimals? Can I perform number operations with decimals? Can I see the pattern of 10 times or divided by 10 with place value? Do I know what rounding means? | (enVisionMath Common Core 5 Realize Edition - Topic 1 Place Value, Topic 2 Adding and Subtracting Decimals, Topic 6 Multiplying Decimals, Topic 7 Dividing Decimals), Class notes, Board Problems. | | Think about God being infinite and still caring about us even though we are so small in the universe. | | | 5.NBT.3-4, 7 | 5.NF.1-4A, 5-7C | | |

| SAINT JOSEPH ELEMENTARY SCHOOL | | | | | | | | | | | |
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| JANUARY | | | | | | | | | | | |
| Decimals, where are they? | All operations with fractions All operations with decimals Place value and expanded form | Do I understand that decimals are fractions based on powers of 10? Can I compare decimals? Can I perform number operations with decimals? Can I see the pattern of 10 times or divided by 10 with place value? Do I know what rounding means? | (enVisionMath Common Core 5 Realize Edition - Topic 1 Place Value, Topic 2 Adding and Subtracting Decimals, Topic 6 Multiplying Decimals, Topic 7 Dividing Decimals), Class notes, Board Problems. | | Think about God being infinite and still caring about us even though we are so small in the universe. | | | 5.NBT.3-4, 7 | 5.NF.1-4A, 5-7C | | |
| FEBRUARY | | | | | | | | | | | |
| Percents, how can I use this info? What is the need for "x"? | All operations with decimals Place value and expanded form Percents Converting Fractions-Decimals-Percents Algebra-solve for x (function rules), graphing equations | What is a percent? Can I convert fractions/decimals/percent? Can I understand the "opposite" of an operation to solve a problem? Can I understand a number pattern and apply it to a real world situation? What is the coordinate plane? | This subject is not covered by enVisionMath Common Core 5 Realize Edition, because it is not a part of the 5th Grade Mathematics Common Core Curriculum. I will be using websites such as purplemath.com and mathisfun.com as well as Class Notes and Board Problems to teach percentages. | | What percent of your things do you give to others in need vs keep for yourself? | MA.1 | 5.OA.3 | 5.NBT.3-4, 7 | | | 5.G.1-2 |

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| MARCH | | | | | | | | | | | |
| <p>What is the need for "x"? Why are shapes important?</p> <p>Start of investment project. Students will learn what is a corporation, how the stock market works, what is a balance sheet and income statement, what information is on these documents and how to analyze it, and will be able to make investments throughout the remainder of the year.</p> | <p>Algebra-solve for x (function rules), graphing equations</p> <p>Coordinate system</p> <p>Area, volume, angles</p> <p>Shapes</p> | <p>Can I understand the "opposite" of an operation to solve a problem?</p> <p>Can I understand a number pattern and apply it to a real world situation?</p> <p>Can I measure objects using the customary and metric system?</p> <p>Using measurement data from an object what can I do with this information?</p> | <p>(enVisionMath Common Core 5 Realize Edition - Topic 8 Numerical Expressions, Patterns, and Relationships, Topic 12 Volume of Solids, Topic 13 Units of Measure, Topic 14 Data, Topic 15 Classifying Plane Figures, Topic 16 Coordinate Geometry), Class notes, Board Problems.</p> | <p>Area, perimeter, and angles is not covered by enVisionMath Common Core 5 Realize Edition, because it is not a part of the 5th Grade Mathematics Curriculum. I will be using websites such as purplemath.com and mathisfun.com as well as Class Notes and Board Problems to teach/review area, perimeter, and angles.</p> | <p>There a lot of different shapes in the world, why do you think God created so many?</p> | MA.1 | | | 5.NF.4B | 5.MD.1-5C | 5.G.3-4 |
| APRIL | | | | | | | | | | | |
| <p>Measurement, when do I use it, what is it used for?</p> | <p>Converting customary and metric measurement</p> <p>Graphs</p> <p>Data</p> <p>Area, volume, angles</p> <p>Shapes</p> | <p>Can I classify shapes based of their properties?</p> <p>Can I find different measurements of shapes?</p> <p>Can I make and read different types of graphs?</p> <p>Can I find the mean/median/mode/ range from a set of data and make reasonable predictions using this data?</p> | <p>(enVisionMath Common Core 5 Realize Edition - Topic 8 Numerical Expressions, Patterns, and Relationships, Topic 12 Volume of Solids, Topic 13 Units of Measure, Topic 14 Data, Topic 15 Classifying Plane Figures, Topic 16 Coordinate Geometry), Class notes, Board Problems.</p> | <p>Area, perimeter, and angles is not covered by enVisionMath Common Core 5 Realize Edition, because it is not a part of the 5th Grade Mathematics Curriculum. I will be using websites such as purplemath.com and mathisfun.com as well as Class Notes and Board Problems to teach/review area, perimeter, and angles.</p> | <p>Why do you think God made us able to measure things in the universe?</p> | | | | 5.NF.4B | 5.MD.1-5C | 5.G.3-4 |

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| MAY | | | | | | | | | | | |
| Measurement, when do I use it, what is it used for? | Converting customary and metric measurement Graphs Data Area, volume, angles Shapes | Can I classify shapes based of their properties? Can I find different measurements of shapes? Can I make and read different types of graphs? Can I find the mean/median/mode/range from a set of data and make reasonable predictions using this data? | (enVisionMath Common Core 5 Realize Edition - Topic 8 Numerical Expressions, Patters, and Relationships, Topic 12 Volume of Solids, Topic 13 Units of Measure, Topic 14 Data, Topic 15 Classifying Plane Figures, Topic 16 Coordinate Geometry), Class notes, Board Problems. | Area, perimeter, and angles is not covered by enVisionMath Common Core 5 Grade Mathematics Curriculum. I will be using websites such as purplemath.com and mathisfun.com as well as Class Notes and Board Problems to teach/review area, perimeter, and angles. | Why do you think God made us able to measure things in the universe? | | | | 5.NF.4B | 5.MD.1-5C | 5.G.3-4 |
| JUNE | | | | | | | | | | | |
| What does a function help me with? | 6th Grade and 7th Grade: Looking Ahead | 6th Grade and 7th Grade: Looking Ahead | (enVisionMath Common Core 5 Realize Edition - Topic 8 Numerical Expressions), Class notes, Board Problems. | Multiple 6th-7th grade Massachusetts Math Standards will be previewed. | | | | | | | |