

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.A.1

Strand: Problem Solving

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|---|
| Use a variety of strategies in the problem-solving process. | Use a variety of strategies in the problem solving process. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Formulate a problem. 2. Determine information needed to solve it. 3. Select methods to obtain information. 4. Set limits for acceptable solutions. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.A.2

Strand: Problem Solving

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|---|
| Use a variety of strategies in the problem-solving process. | Use a variety of strategies to understand problem-solving situations and processes. |

| Performance Indicators | | |
|---|------------|-----------|
| 1. Use guess and check, listing and diagramming to solve word problems. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.B.1

Strand: Properties and Concepts of Numbers

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|--|--|
| Understand and apply basic and advanced properties of the concepts of numbers. | Understand the relationship among equivalent number representations. |

| Performance Indicators | | |
|---|------------|-----------|
| 1. Convert among fractions, decimals, percents and whole numbers. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.B.2

Strand: Properties and Concepts of Numbers

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|--|---|
| Understand and apply basic and advanced properties of the concepts of numbers. | Understand the characteristics and properties of the set of real numbers and its subsets. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Distinguish and order whole numbers, fractions, decimals, and integers. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.B.3

Strand: Properties and Concepts of Numbers

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|--|--|
| Understand and apply basic and advanced properties of the concepts of numbers. | Understand basic number theory concepts. |

| Performance Indicators | | |
|---|------------|-----------|
| 1. Use number theory concepts (e.g. divisibility, remainders, factors, multiples, prime and composite) to solve problems. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.C.1

Strand: Computation

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|--|--|
| Use basic and advanced procedures while performing the process of computation. | Understand the properties of operations with rational numbers. |

| Performance Indicators | | |
|---|------------|-----------|
| 1. Apply the commutative and associative properties of multiplication and addition to solve problems. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.C.2

Strand: Computation

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|--|--|
| Use basic and advanced procedures while performing the process of computation. | Understand the correct order of operations for performing arithmetic computations. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Use the proper order of operations involving addition, subtraction, multiplication, division and parentheses. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.C.3

Strand: Computation

| Diocesan Standard Terra Nova Objective | Benchmark Statement. |
|--|---|
| Use basic and advanced procedures while performing the process of computation. | Use proportional reasoning to solve mathematical and real-world problems. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Use equivalent fractions to solve mathematical and real-world problems. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.C.4

Strand: Computation

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|--|---|
| Use basic and advanced procedures while performing the process of computation. | Add, subtract, multiply and divide whole numbers, fractions and decimals. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Add, subtract, multiply and divide whole numbers, fractions and decimals. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.D.1

Strand: Measurement

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|---|
| Understand and apply basic and advanced properties of the concepts of measurement | Solve problems involving units of measurement and convert answers to a larger or smaller unit within the same system. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Solve problems involving units of measurement and convert answers to a larger or smaller unit within the same system. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.D.2

Strand: Measurement

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|---|
| Understand and apply basic and advanced properties of the concepts of measurement | Solve problems involving perimeter, circumference and area of various shapes. |

| Performance Indicators |
|---|
| 1. Use appropriate formulas to find perimeter of polygons and area of rectangles, parallelograms and triangles. |

| Suggested Activities | Assessment | Resources |
|----------------------|------------|-----------|
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.D.3

Strand: Measurement

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|--|
| Understand and apply basic and advanced properties of the concepts of measurement | Select and use standard and non-standard units and tools, depending on the degree of accuracy required to find measurements for real-world problems. |

| Performance Indicators | | |
|---|------------|-----------|
| 1. Select and use standard and nonstandard units and tools dependent on degree of precision required. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.E.1

Strand: Geometry

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|--|--|
| Understand and apply basic and advanced properties of the concepts of geometry | Understand the defining properties of basic three-dimensional figures. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Define the properties of basic three-dimensional figures (i.e. cube, rectangular prism) and identify other three-dimensional figures. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.E.2

Strand: Geometry

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|--|---|
| Understand and apply basic and advanced properties of the concepts of geometry | Understand geometric transformation of figures. |

| Performance Indicators | | |
|-------------------------------------|------------|-----------|
| 1. Perform slides, flips and turns. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.E.3

Strand: Geometry

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|--|--|
| Understand and apply basic and advanced properties of the concepts of geometry | Understand the mathematical concepts of similarity and congruency. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Identify congruency of two-dimensional figures. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.E.4

Strand: Geometry

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|-------------------------------------|
| Understand and apply basic and advanced properties of the concepts of Geometry. | Understand geometric constructions. |

| Performance Indicators | | |
|---|------------|-----------|
| 1. Construct congruent angles and line segments. 2. Bisect angles and line segments. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.F.1

Strand: Probability and Data Analysis

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|---|
| Understand and apply basic and advanced concepts of probability and data analysis | Understand measures of central tendency, frequency distribution, and variability and their applications to specific situations. |

| Performance Indicators | | |
|---|------------|-----------|
| 1. Identify and compute mean, mode, median and range. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.F.2

Strand: Probability and Data Analysis

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|--|
| Understand and apply basic and advanced concepts of probability and data analysis | Select and use the best method of representing and describing a set of data. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Read and interpret charts, tables, and plots (i.e. stem-and-leaf, box and whisker and scatter). | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6F.3

Strand: Understand and Apply Basic and Advanced
 Concepts of Probability and Data Analysis

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|---|
| Understand and apply basic and advanced concepts of probability and data analysis | Determine probability using mathematical/theoretical models and simulations or experiments. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Determines probability using simulations and experiments. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.G.1

Strand: Functions and Algebra

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|---|
| Understand and apply basic and advanced properties of functions and algebra | Know that an expression is a mathematical statement using numbers and symbols to represent relationships and real-world situations. |

| Performance Indicators | | |
|--|------------|-----------|
| 1. Express written sentences as mathematical expressions using numbers and symbols. *, /, +, -, <, >, =. | | |
| Suggested Activities | Assessment | Resources |
| | | |

Diocese of Jefferson City Curriculum Guide

Content Area: Math
 Grade Range: Sixth
 Section/Heading: 6.G.2

Strand: Functions and Algebra

| Diocesan Standard Terra Nova Objective | Benchmark Statement |
|---|--|
| Understand and apply basic and advanced properties of functions and algebra | Understand various representations of patterns and functions and the relationships among them. |

| Performance Indicators | | |
|---|------------|-----------|
| 1. Use various patterns and relationships among them. | | |
| Suggested Activities | Assessment | Resources |
| | | |