# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Pre Algebra: Writing Expressions with Variables | | M | | | | |
| Pre Algebra: Equations Using Squares and Square Roots | | R | | M | | |
| Pre Algebra: Powers Adding and Subtracting | | R | | M | | |
| Pre Algebra: Powers Multiplying and Dividing | | R | | M | | |
| Pre Algebra: Pythagorean Theorem | | R | M | | | |
| Pre Algebra: Irrational Numbers Concept | | M | | | | |
| Pre Algebra: Integers Concept | | M | | | | |
| Pre Algebra: Adding and Subtracting Positive and Negative Integers | | M | | | | |
| Pre Algebra: Multiplying and Dividing Positive and Negative Integers | | M | | | | |
| Pre Algebra: Solving Equations with Integers | | M | | | | |
| Pre Algebra: Relations and Functions | | R | | M | | |
| Pre Algebra: Standard Function Notation | | R | | M | | |
| Pre Algebra: Graphing Linear Equations | | M | | | | |
| Pre Algebra: Slope | | M | | | | |
| Pre Algebra: Direct and Inverse Variation | | R | | M | | |
| Pre Algebra: Graphing Systems of Equations | | R | | M | | |
| Percent: Solving Problems Involving Two Unknowns | | R | | | | |
| Percent: Writing Equations | | M | | | | |
| Integers: Opposites and Absolute Value | | M | | | | |
| Real Numbers: Kinds of Numbers | | M | | | | |
| Real Numbers: Symbols and Grouping | | M | | | | |
| Sets: Concepts | | M | | | | |
| Sets: Subsets | | M | | | | |
| Sets: Union and Intersection | | M | | | | |
| Sets: Finite and Infinite | | M | | | | |
| Language of Algebra: Negative Exponents | | M | | | | |
| Language of Algebra: Evaluating Algebraic Expressions | | M | | | | |
| Language of Algebra: Combining Like Terms | | M | | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Language of Algebra: Removing Parentheses | | M | | | | |
| Language of Algebra: Properties of Equality | | M | | | | |
| Solving Equations: Using Properties of Equality | | M | | | | |
| Solving Equations: Absolute Value Equations | | M | | | | |
| Solving Equations: Clearing Equations of Fractions | | M | | | | |
| Solving Equations: Distances on Number Lines | | I | | M | | |
| Solving Equations: Rational Functions | | | | M | | |
| Solving Equations: Rational Equations | | | | M | | |
| Solving Inequalities: Concepts | | M | | | | |
| Solving Inequalities: Addition and Subtraction Properties | | M | | | | |
| Solving Inequalities: Multiplication and Division Properties | | M | | | | |
| Solving Inequalities: Conjunction | | M | | | | |
| Solving Inequalities: Disjunction | | M | | | | |
| Solving Inequalities: Absolute Value | | R | | M | | |
| Solving Inequalities: Compound Linear Inequalities | | | | M | | |
| Relations, Functions and Graphs: Domain and Range | | M | | | | |
| Relations, Functions and Graphs: Graphing Linier Inequalities | | I | | M | | |
| Systems: Solving Equations by Graphing | | I | | M | | |
| Systems: Solving Equations by Substitution | | I | | M | | |
| Systems: Solving Equations by the Addition Method | | I | | | | |
| Systems: Solving Systems Inequalities | | I | | | | |
| Systems: Quadratic | | | | M | | |
| Systems: Three Variables | | | | M | | |
| Polynomials: Classifying and Evaluating | | M | | | | |
| Polynomials: Adding and Subtracting | | M | | | | |
| Polynomials: Multiplying | | M | | | | |
| Polynomials: Special Products | | M | | | | |
| Polynomials: Dividing | | M | | | | |
| Polynomials: Factoring Common Monomials | | M | | | | |
| Polynomials: Factoring Difference of Two Squares | | M | | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Polynomials: Factoring Perfect Square Trinomial | | M | | | | |
| Polynomials: Factoring Trinomial | | M | | | | |
| Polynomials: Factoring by Grouping | | | | M | | |
| Polynomials Functions: Concepts | | | | M | | |
| Polynomials Functions: Graphing | | | | M | | |
| Polynomials Functions: Graphing Inequalities | | | | M | | |
| Polynomials Functions: Remainder and Factor Theorems | | | | M | | |
| Radicals: Expressing Square Roots | | M | | | | |
| Radicals: Simplifying | | M | | | | |
| Radicals: Multiplying | | M | | | | |
| Radicals: Dividing and Rationalizing Denominators | | I | | M | | |
| Radicals: Adding and Subtracting | | I | | M | | |
| Radicals: Distance Formula | | M | | | | |
| Radicals: Multiplying Expressions | | I | | M | | |
| Radicals: Dividing Expressions | | I | | M | | |
| Radicals: Equations | | I | | M | | |
| Radicals: Functions | | | | M | | |
| Quadratic Equations: Zero Product Property | | M | | | | |
| Quadratic Equations: Solving by Factoring | | M | | | | |
| Quadratic Equations: Solving by Taking Roots | | M | | | | |
| Quadratic Equations: Completing the Square | | I | | M | | |
| Quadratic Equations: Quadratic Formula | | M | | | | |
| Quadratic Equations: Solving Inequalities | | | | M | | |
| Quadratic Equations: The Circle | | | | | | M |
| Quadratic Equations: From Three Points | | | | | | M |
| Quadratic Equations: The Parabola | | | | | | M |
| Quadratic Equations: The Hyperbola | | | | | | M |
| Quadratic Equations: Translations of Equations | | | | | | M |
| Quadratic Equations: Rotations of Equations | | | | | | M |
| Rational Expressions: Simplifying | | M | | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Rational Expressions: Multiplying | | M | | | | |
| Rational Expressions: Dividing | | M | | | | |
| Rational Expressions: Adding and Subtracting | | I | | M | | |
| Rational Expressions: Complex | | I | | M | | |
| Rational Equations: Literal Equations | | I | | M | | |
| Quadratic Functions: Graphing | | I | | M | | |
| Quadratic Functions: Solving | | I | | M | | |
| Quadratic Functions: Zeros of a Function | | I | | M | | |
| Linear Relations: Concepts | | | | M | | |
| Linear Relations: Functions | | | | M | | |
| Linear Relations: Finding Equations of Lines | | | | M | | |
| Linear Relations: Special Functions | | | | M | | |
| Linear Relations: Compositions | | | | M | | |
| Linear Relations: Distances and Midpoints | | | | M | | |
| Complex Numbers: Imaginary Numbers | | | | M | | |
| Complex Numbers: Addition | | | | M | | |
| Complex Numbers: Multiplication | | | | M | | |
| Complex Numbers: Division | | | | M | | |
| Complex Numbers: Powers and Nth Roots | | | | | M | |
| Complex Numbers: Quadratic Equations | | | | M | | |
| Complex Numbers: Graphing | | | | M | | |
| Complex Numbers: Vectors | | | | I | M | |
| Complex Numbers: Vector Multiplication | | | | | M | |
| Trigonometry: Right-Triangle | | | | M | | |
| Trigonometry: Special Triangles and Reciprocal Ratios | | | | M | | |
| Trigonometry: Using Cartesian Plane | | | | M | | |
| Trigonometry: Radian Measure | | | | I | R | M |
| Trigonometry: Functions | | | | I | R | M |
| Trigonometry: Amplitude and Period | | | | I | | |
| Trigonometry: Law of Sines | | | | I | R | M |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Trigonometry: Law of Cosines | | | | I | R | M |
| Trigonometry: Basic Identities | | | I | R | M | |
| Trigonometry: Proving Identities | | | | I | M | |
| Trigonometry: Equations | | | | I | R | M |
| Trigonometry: Inverse Concepts | | | | M | | |
| Trigonometry: Inverse Functions | | | | I | R | M |
| Trigonometry: Logarithm Functions | | | | I | | |
| Trigonometry: Laws of Logarithms | | | | I | | |
| Trigonometry: Natural and Common Logarithms | | | | I | | |
| Trigonometry: Ratios | | | R | M | | |
| Trigonometry: Special Triangles | | | I | R | R | M |
| Trigonometry: Applications | | | I | | | |
| Trigonometry: Regular Polygons | | | I | | | |
| Trigonometry: Angle Location | | | | | | M |
| Trigonometry: Reduction Formulas | | | | | | M |
| Trigonometry: Quadrantal Angles | | | | | | M |
| Trigonometry: Circular Functions | | | | | | M |
| Trigonometry: Circular Functions of Special Angles | | | | | | M |
| Trigonometry: Graph of Sine and Cosine | | | | I | | M |
| Trigonometry: Applications | | | | | | M |
| Trigonometry: Amplitude | | | | I | R | M |
| Trigonometry: Period | | | | I | R | M |
| Trigonometry: Phase Shift | | | | I | R | M |
| Trigonometry: Pythagorean Identities | | | | | M | |
| Trigonometry: Pythagorean Relations | | | | | | M |
| Trigonometry: Velocity | | | | | M | |
| Trigonometry: Quotients Relations | | | | | | M |
| Trigonometry: Cosine of the Two Angles | | | | | | M |
| Trigonometry: Sum and Difference Formulas | | | | | | M |
| Trigonometry: Converting Between Products and Sums | | | | | M | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Trigonometry: Double and Half Angle Formulas | | | | | I | M |
| Trigonometry: Equations | | | | | | M |
| Trigonometry: Function of any Angle | | | | | | M |
| Trigonometry: Ambiguity and Area of a Triangle | | | | | M | |
| Trigonometry: Applied/Application Problems | | | | | | M |
| Trigonometry: Graph of Inverse Functions | | | | | | M |
| Trigonometry: Graphing Polar Coordinates | | | | | I | M |
| Trigonometry: Converting Coordinates | | | | | I | M |
| Trigonometry: Converting Between Cartesian and Polar Equations | | | | | I | M |
| Trigonometry: Graphing Polar Equations | | | | | I | M |
| Trigonometry: Polar Curves | | | | | I | M |
| Trigonometry: Polar Forms of Conics | | | | | I | M |
| Trigonometry: Polar Form of Complex Numbers | | | | | I | |
| Algebraic Word Problems: Word Sentences and Equations | | M | | | | |
| Algebraic Word Problems: How to Solve Word Problems | | R | | M | | |
| Algebraic Word Problems: Coin and Interest Problems | | M | | | | |
| Algebraic Word Problems: Motion Problems | | M | | | | |
| Algebraic Word Problems: Mixture Problems | | M | | | | |
| Algebraic Word Problems: Using Inequalities | | M | | | | |
| Algebraic Word Problems: Interest Problems | | M | | | | |
| Algebraic Word Problems: Using Quadratic Equations | | I | | M | | |
| Algebraic Word Problems: Work | | I | | M | | |
| Algebraic Word Problems: Investment | | I | | M | | |
| Algebraic Word Problems: Applications of Quadratic Functions | | I | | M | | |
| Algebraic Word Problems: Solving using Systems | | | | M | | |
| Algebraic Word Problems: Linear Programming | | | | M | | |
| Algebraic Word Problems: Variations | | | | M | | |
| Algebraic Word Problems: Work Problems | | | | M | | |
| Algebraic Word Problems: Using Trigonometry | | | | I | | |
| Algebraic Word Problems: Using Logarithms | | | | I | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Statistics & Probability: Concept | | | | | | |
| Statistics & Probability: Range | | | | | | |
| Statistics & Probability: Mean, Median, & Mode | | | | | | |
| Statistics & Probability: Graphing Data | | | | | | |
| Statistics & Probability: Frequency Distribution Charts and Histograms | | | | | | |
| Statistics & Probability: Multiplication Principle of Counting | | R | | M | | |
| Statistics & Probability: Permutations | | R | | M | | |
| Statistics & Probability: Mutually Exclusive Events | | R | | M | | |
| Statistics & Probability: Independent and Dependant Events | | R | | M | | |
| Statistics & Probability: Combinations | | R | | M | | |
| Statistics & Probability: Variability | | R | | | | |
| Statistics & Probability: Standard Deviations | | I | | | | |
| Statistics & Probability: Empirical Rule | | I | | | | |
| Statistics & Probability: Intersecting Sets and Probability | | I | | | | |
| Statistics & Probability: Independent and Dependent Probabilities | | I | | | | |
| Statistics & Probability: Standard Normal Distribution | | I | | | | |
| Statistics & Probability: Binomial Theorem | | | | I | | |
| Statistics & Probability: Laws of Probability | | | | M | | |
| Statistics & Probability: Midrange, Mean Deviation, Variance, Standard Deviation | | | | M | | |
| Statistics & Probability: Normal Distribution | | | | I | | |
| Statistics & Probability: Circular Permutations | | | | | | M |
| Calculus: Concepts | | | | | | I |
| Calculus: Proofs of Mathematical Induction | | | | | | I |
| Calculus: Functional Notation | | | | | | I |
| Calculus: Difference Quotient | | | | | | I |
| Calculus: Limits | | | | | | I |
| Calculus: Slope of a Line | | | | | | I |
| Calculus: Slope of a Curve | | | | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Matrix Algebra: Concepts | | | | M | | |
| Matrix Algebra: Addition | | | | M | | |
| Matrix Algebra: Operations | | | | M | | |
| Matrix Algebra: Determinants | | | | M | | |
| Matrix Algebra: Minors | | | | M | | |
| Matrix Algebra: Cramer's Rule | | | | M | | |
| Matrix Algebra: Special Products | | | | M | | |
| Matrix Algebra: Products | | | | M | | |
| Matrix Algebra: Division | | | | M | | |
| Matrix Algebra: Row Reducing | | | | I | | |
| Matrix Algebra: Square Matrices | | | | I | | |
| Matrix Algebra: Inverses | | | | I | | |
| Matrix Algebra: Advantages of Matrices | | | | I | | |
| Matrix Algebra: Solving Systems | | | | I | | |
| Analytic Geometry: Conic Sections | | | R | I | | |
| Analytic Geometry: Circles | | | R | I | | |
| Analytic Geometry: Parabolas | | | | I | | |
| Analytic Geometry: Ellipses | | | | I | | |
| Analytic Geometry: Hyperbolas | | | | I | | |
| Analytic Geometry: Systems of Quadratic Relations | | | | I | | |
| Analytic Geometry: Distance Formula | | | I | | | |
| Analytic Geometry: Heron's Formula | | | I | | M | |
| Incidence Geometry: Undefined Terms and Definitions | | | M | | | |
| Incidence Geometry: Basic Definitions | | | M | | | |
| Incidence Geometry: Euclidean Model | | | M | | | |
| Incidence Geometry: Incidence Theorems | | | M | | | |
| Incidence Geometry: Concepts Sketches and Constructions | | | M | | | |
| Subsets: Lines | | | M | | | |
| Subsets: Betweenness | | | M | | | |
| Subsets: Planes | | | M | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Subsets: Curves and Circles | | | M | | | |
| Subsets: Polygons and Convexity | | | M | | | |
| Subsets: Space | | | M | | | |
| Subsets: Polyhedra | | | M | | | |
| Segments and Measurement: Substitution and Trichotomy | | | M | | | |
| Segments and Measurement: Segment Measure | | | M | | | |
| Segments and Measurement: Segment Bisector | | | M | | | |
| Segments and Measurement: Perimeter and Circumference | | | M | | | |
| Segments and Measurement: Inscribed and circumscribed | | | M | | | |
| Segments and Measurement: Segment Constructions | | | M | | | |
| Angles and Measurement: Any Quality Properties | | | M | | | |
| Angles and Measurement: Bisector | | | M | | | |
| Angles and Measurement: Properties | | | M | | | |
| Angles and Measurement: Types of Triangles | | | M | | | |
| Angles and Measurement: Types of Quadrilaterals | | | M | | | |
| Angles and Measurement: Angle Constructions | | | M | | | |
| Proofs: Reasoning Concepts | | | M | | | |
| Proofs: Statements and Quantifiers | | | M | | | |
| Proofs: Truth Values and Connectives | | | M | | | |
| Proofs: Conditional Statements | | | M | | | |
| Proofs: Inductive and Deductive Reasoning | | | M | | | |
| Proofs: Deductive Proof | | | M | | | |
| Proofs: Construction and Proof | | | M | | | |
| Congruence: Segments | | | M | | | |
| Congruence: Angles | | | M | | | |
| Congruence: Polygons and Circles | | | M | | | |
| Congruence: Parallel Lines and Transversals | | | M | | | |
| Congruence: Angles of Polygons | | | M | | | |
| Congruence: Postulates | | | M | | | |
| Congruence: Triangles | | | M | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Triangles and Quadrilaterals: Right Triangles | | | M | | | |
| Triangles and Quadrilaterals: Perpendiculars and Bisectors | | | M | | | |
| Triangles and Quadrilaterals: Exterior Angles and Inequalities | | | M | | | |
| Triangles and Quadrilaterals: Triangle Inequality | | | M | | | |
| Triangles and Quadrilaterals: Parallelograms | | | M | | | |
| Triangles and Quadrilaterals: Polygon Constructions | | | M | | | |
| Area: Basic Concepts | | | M | | | |
| Area: Postulates and Theorems | | | M | | | |
| Area: Regular Polygons | | | M | | | |
| Area: Circles | | | M | | | |
| Area: Surfaces | | | M | | | |
| Circle: Concepts and Chords | | | M | | | |
| Circle: Tangents | | | M | | | |
| Circle: Arcs | | | M | | | |
| Circle: Inscribed Angles | | | M | | | |
| Circle: Lines and Circles | | | M | | | |
| Circle: Sectors and Segments | | | M | | | |
| Circle: Constructions | | | M | | | |
| Space: Perspective | | | M | | | |
| Space: Separation | | | M | | | |
| Space: Perpendiculars | | | M | | | |
| Space: Parallels | | | M | | | |
| Space: Polyhedra | | | M | | | |
| Space: Spheres | | | M | | | |
| Space: Latitude and Longitude | | | M | | | |
| Volume: Concepts | | | M | | | |
| Volume: Prisms | | | M | | | |
| Volume: Cylinders | | | M | | | |
| Volume: Pyramids and Cones | | | M | | | |
| Volume: Polyhedra Spheres | | | M | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Volume: Constructions | | | M | | | |
| Transformations and Symmetry: Concepts | | | M | | | |
| Transformations and Symmetry: Translations and Rotations | | | M | | | |
| Transformations and Symmetry: Dilations | | | M | | | |
| Transformations and Symmetry: Invariance Under Transformations | | | M | | | |
| Transformations and Symmetry: Applications of Isometries | | | M | | | |
| Similarity: Similar Figures | | | M | | | |
| Similarity: Triangles | | | M | | | |
| Similarity: Right Triangles | | | M | | | |
| Similarity: Problem Solving | | | M | | | |
| Similarity: Circles and Proportions | | | M | | | |
| Similarity: Golden Ratio | | | M | | | |
| Buying a Car: Decision | M | | | | | |
| Buying a Car: Taxes and Fees | M | | | | | |
| Buying a Car: Financing | M | | | | | |
| Buying a Car: Depreciation | M | | | | | |
| Buying a Car: Insurance | M | | | | | |
| Buying a Car: Maintenance and Repair | M | | | | | |
| Buying a Car: Annual Operating Cost | M | | | | | |
| Buying a Car: Leasing | M | | | | | |
| Travel: by Airplane | M | | | | | |
| Travel: Time Zones | M | | | | | |
| Travel: by Train or Bus | M | | | | | |
| Travel: Renting a Car | M | | | | | |
| Income: Hourly Wages | M | | | | | |
| Income: Time Clocks | M | | | | | |
| Income: Piecework and Tips | M | | | | | |
| Income: Salaries and Commission | M | | | | | |
| Income: Self-Employed Workers | M | | | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Income: Deductions | M | | | | | |
| Budgeting: Time | M | | | | | |
| Budgeting: Illustrated Time | M | | | | | |
| Budgeting: Household | M | | | | | |
| Budgeting: Itemizing to Estimate Expenses | M | | | | | |
| Budgeting: Balancing | M | | | | | |
| Budgeting: Adjustments | M | | | | | |
| Budgeting: Standardized | M | | | | | |
| Housing: Renting verses Buying | M | | | | | |
| Housing: Mortgage Loans | M | | | | | |
| Housing: Property Tax | M | | | | | |
| Housing: Homeowner's Insurance | M | | | | | |
| Housing: Repairs and Upkeep | M | | | | | |
| Housing: Furnishing Cost | M | | | | | |
| Housing: Purchasing Electricity | M | | | | | |
| Housing: Reading the Electric Meter | M | | | | | |
| Housing: Purchasing Natural Gas | M | | | | | |
| Housing: Other Utility | M | | | | | |
| Housing: Telephone Rate | M | | | | | |
| Food: Buying | M | | | | | |
| Food: Unit Price | M | | | | | |
| Food: Using Unit Price | M | | | | | |
| Food: Inflation and Prices | M | | | | | |
| Food: Consumer Price Index | M | | | | | |
| Food: Varying Prices | M | | | | | |
| Food: Metric System | M | | | | | |
| Food: Restaurant Eating | M | | | | | |
| Food: Freezers | M | | | | | |
| Food: Saving Dollars | M | | | | | |
| Food: Labeling and Nutrition | M | | | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Food: Measuring Calories | M | | | | | |
| Food: Using Calories | M | | | | | |
| Clothing: Plan | M | | | | | |
| Clothing: Buying by Mail | M | | | | | |
| Clothing: Stretching the Budget | M | | | | | |
| Clothing: Sewing Your Own | M | | | | | |
| Clothing: Buying on Sale | M | | | | | |
| Clothing: Consumer Price Index | M | | | | | |
| Clothing: Profit and Loss in the Business | M | | | | | |
| Clothing: Markup on Cost | M | | | | | |
| Clothing: Finding the Selling Price Based on the Markup Cost | M | | | | | |
| Clothing: Markup on Retail | M | | | | | |
| Clothing: Finding the Cost based on the Markup on Retail | M | | | | | |
| Clothing: Manufacturer's Cost to Produce | M | | | | | |
| Leisure: Taking a Vacation | M | | | | | |
| Leisure: Shopping | M | | | | | |
| Leisure: Enjoying the Computer | M | | | | | |
| Leisure: Cooking | M | | | | | |
| Leisure: Reading | M | | | | | |
| Leisure: Church Activities | M | | | | | |
| Federal Taxes and Records: Social Security | M | | | | | |
| Federal Taxes and Records: Federal Income | M | | | | | |
| Federal Taxes and Records: Income Tax Return 1040EZ | M | | | | | |
| Federal Taxes and Records: Income Tax Return 1040A | M | | | | | |
| Federal Taxes and Records: State Income | M | | | | | |
| Federal Taxes and Records: Cash Records | M | | | | | |
| Federal Taxes and Records: Comparing Cash Receipts and Cash Payments | M | | | | | |
| Federal Taxes and Records: Cash Payment Records | M | | | | | |
| Banking: Checking Account | M | | | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code:** I= Introduced R= Reinforced M= Mastered

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Banking: Writing Checks | M | | | | | |
| Banking: Reconciling Your Bank Statement | M | | | | | |
| Banking: Installment Plans | M | | | | | |
| Banking: Constant Ratio Formula | M | | | | | |
| Banking: Credit Cards | M | | | | | |
| Banking: Savings Account | M | | | | | |
| Banking: Compound Interest | M | | | | | |
| Banking: Borrowing Money | M | | | | | |
| Banking: Certificates of Deposits and Savings Bonds | M | | | | | |
| Banking: Related Bank Services | M | | | | | |
| Investments: Life Insurance | M | | | | | |
| Investments: Life Insurance Benefits | M | | | | | |
| Investments: Life Insurance Settlement Options | M | | | | | |
| Investments: Buying Bonds | M | | | | | |
| Investments: Interest Paid on Bonds | M | | | | | |
| Investments: Proceeds from Bonds | M | | | | | |
| Investments: Buying Stock | M | | | | | |
| Investments: The Stockbroker | M | | | | | |
| Investments: Dividends from Stock | M | | | | | |
| Investments: Capital Gains and Losses on Sale of Stock | M | | | | | |
| Small Business: Beginning | M | | | | | |
| Small Business: Assets and Liabilities | M | | | | | |
| Small Business: Balance Sheet | M | | | | | |
| Small Business: Ratio Analysis | M | | | | | |
| Small Business: Income Statement | M | | | | | |
| Small Business: Ratio Related to Sales | M | | | | | |
| Small Business: Payroll Record | M | | | | | |
| Small Business: Break-even Analysis | M | | | | | |
| Small Business: Trade Discounts | M | | | | | |
| Small Business: Trade Credit | M | | | | | |

# Stevens Point Christian Academy High School Math Academic Standards/Scope & Sequence

**Code: I= Introduced R= Reinforced M= Mastered**

**Key Scripture: Colossians 1:16-17** "For by Him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities: all things were created by Him and for Him. He is before all things and in Him all things hold together." (NIV)

| Skills and Concepts | Consumer Math | Algebra I | Geometry | Algebra II | Trigonometry | Pre-Calculus |
|---|---|---|---|---|---|---|
| Small Business: Storage and Inventory | M | | | | | |

## Stevens Point Christian Academy Philosophy of Mathematics Education

The study of mathematics is defined as the systematic treatment of magnitude, relationships between figures and forms, and relations between quantities expressed symbolically.

God is the Creator of all things (Genesis 1:1, Colossians 1:16), the author of all truth (Psalm 119:160), and a God of order (I Corinthians 14:33) who never changes (Malachi 3:6, Hebrews 13:8). God's truth is absolute. As Creator and sustainer of all things, God is the Great Mathematician, who is concerned with the smallest of details (Matthew 10:30) and requires precision and accuracy on the believer's part (Genesis 6:15, 16). His laws are fixed (Jeremiah 33:25, 26) and "in him all things hold together" (Colossians 1:17, NIV).

We endeavor to train each student in these truths, equipping them with the mathematical skills and tools necessary for interpreting the world around them, persevering in problem-solving, and career preparation. Through the fostering of critical and analytical thinking skills, and assisting students in transferring their concrete learning experiences to abstract reasoning, students grow in mathematical maturity, and are able to construct viable arguments and critique the reasoning of others, within a Biblical context.

Although we recognize that technology is integral to education in the twenty-first century, we believe that calculators and computers should enhance the learning experience, while not creating a dependency; proper balance is necessary. Our desire is for each of our students to become mathematically literate, wisely stewarding their resources and honoring God with their time, talent, and treasure, while making positive contributions to our increasingly-technological society.