Saxon Math 5/4, Math 6/5, Math 7/6, and Math 8/7 Scope and Sequence

| | Saxon | Saxon | Saxon | Saxon |
|---|-----------------|-----------------|-----------------|-----------------|
| | <i>Math 5/4</i> | <i>Math 6/5</i> | <i>Math 7/6</i> | <i>Math 8/7</i> |
| Numbers and Operations | | | | |
| Numeration | • | • | • | • |
| Digits | • | • | • | • |
| Reading and writing numbers | • | • | • | • |
| Ordinal numbers | • | • | • | • |
| Place value | • | • | • | • |
| Number line | • | • | • | • |
| Expanded notation | • | • | • | • |
| Operations | | | | |
| Addition | | | | |
| Addends and sum | • | • | • | • |
| Adding whole numbers | • | • | • | • |
| Regrouping | • | • | • | • |
| Adding decimals | • | • | • | • |
| Adding fractions and mixed numbers | • | • | • | • |
| Adding signed numbers | | | • | • |
| Mental addition strategies | • | • | • | |
| Subtraction | | | | |
| Difference, subtrahend, and minuend | • | • | • | • |
| Subtracting whole numbers | • | • | • | • |
| Regrouping (borrowing) | • | • | • | • |
| Subtracting decimals | • | • | • | • |
| Subtracting fractions and mixed numbers | • | • | • | • |
| Subtracting signed numbers | | | • | • |
| Mental subtraction strategies | • | • | • | • |
| Multiplication | | | | |
| Multiplication as repeated addition | • | • | • | • |
| Factors and product | • | • | • | • |
| Multiplication table | • | • | • | • |
| Regrouping | • | • | • | • |
| Multiplication notations: $a \times b$, $a \cdot b$, and $a(b)$ | • | • | • | • |
| Multiplying whole numbers | • | • | • | • |
| Multiplying decimals | | • | • | • |
| Multiplying fractions and mixed numbers | | • | • | • |
| Multiplying signed numbers | | | • | • |
| Mental multiplication strategies | • | • | • | • |
| Division | | | | |
| Dividend, divisor, and quotient | • | • | • | • |
| Dividing with whole numbers | • | • | • | • |
| Remainders | • | • | • | • |

1

| | Saxon | Saxon | Saxon | Saxon |
|---|-----------------|-----------------|-----------------|-----------------|
| | <i>Math 5/4</i> | <i>Math 6/5</i> | <i>Math 7/6</i> | <i>Math 8/7</i> |
| Dividing with decimals | | • | • | • |
| Dividing with fractions and mixed numbers | | • | • | • |
| Dividing with signed numbers | | | • | • |
| Mental division strategies | • | • | • | • |
| Division notations: division box, division sign, and | • | • | • | • |
| division bar | | | | |
| Powers | | | | |
| Powers as repeated multiplication | • | • | • | • |
| Base and exponent | • | • | • | • |
| Powers of whole numbers | • | • | • | • |
| Powers of decimals | | | • | • |
| Powers of fractions | | | • | • |
| Negative exponents | | | | • |
| Scientific notation | | | | • |
| Relationship of place value to powers of 10 | • | • | • | • |
| Roots | | | | |
| Square roots | • | • | • | • |
| Cube roots | | | | • |
| Index | | | | • |
| Using a calculator to find roots | | | • | • |
| Mastering basic facts | • | • | • | • |
| Order of operations | • | • | • | • |
| Inverse operations | | • | • | • |
| Fraction Concepts | | | | |
| Fractions and Mixed Numbers | | | | |
| Reading and writing fractions and mixed numbers | • | • | • | • |
| Numerator and denominator | • | • | • | • |
| Fractional part of a whole, group, set, or number | • | • | • | • |
| Comparing and ordering fractions | • | • | • | • |
| Equivalent fractions | • | • | • | • |
| Reducing | • | • | • | • |
| Improper fractions | • | • | • | • |
| Least common denominator | • | • | • | • |
| Converting fractions to decimals and percents | • | • | • | • |
| Reciprocals | | • | • | • |
| Complex fractions | | | | • |
| Decimals | | | | |
| Reading and writing decimals | • | • | • | • |
| Comparing and ordering decimals | • | • | • | • |
| Converting decimals to fractions and percents | • | • | • | • |
| Percents | | | | |
| Reading and writing percents | • | • | • | • |
| Identify/find percent of a whole, group, set, or number | • | • | • | • |

| | Carran | Saxon | Saxon | Saxon |
|---|-----------------|-----------------|----------|----------|
| | Saxon Math 5/4 | | Math 7/6 | Math 8/7 |
| Converting percents to freetiens and desimals | | <i>Math 6/5</i> | Math 7/0 | Math 8// |
| Converting percents to fractions and decimals Percents greater than 100% | • | • | - | • |
| | | | • | • |
| Percent of change | | | | • |
| Ratios and proportions | | • | • | • |
| Rates | • | | • | • |
| Estimation | | | | |
| Rounding whole numbers | • | • | • | • |
| Rounding decimals | • | • | • | • |
| Rounding mixed numbers | | • | • | • |
| Estimating sums | • | • | • | • |
| Estimating differences | • | • | • | • |
| Estimating products | • | • | • | • |
| Estimating quotients | • | • | • | • |
| Estimating roots | | | • | • |
| Using estimation to verify reasonableness of calculations | • | • | • | • |
| Deciding whether an exact answer or approximate | _ | _ | _ | |
| answer is desired | • | • | • | |
| Number Theory | | | | |
| Fact families | • | • | • | • |
| Even and odd | • | • | • | • |
| Factors, multiples, and divisibility | • | • | • | • |
| Prime and composite numbers | | • | • | • |
| Greatest common factor (GCF) | | • | • | • |
| Least common multiple (LCM) | | • | • | • |
| Divisibility tests | | • | • | • |
| Prime factorization | | | • | • |
| Number Sets and Number Systems | | | | |
| Counting numbers (natural numbers) | • | • | • | • |
| Whole numbers | • | • | • | • |
| Decimal number system | • | • | • | • |
| Negative numbers | • | • | • | • |
| Integers | | • | • | • |
| Rational numbers | | | | • |
| Irrational numbers | | | • | • |
| Real numbers | | | | • |
| Roman numerals | • | • | • | • |
| Base 5 | • | • | | |
| Base 2 | | | | • |
| | | | | |
| Measurement | | <u> </u> | | |
| Units | | | | |
| U.S. Customary | | | | |
| Length (inch, foot, yard, mile) | • | • | • | • |
| Capacity (cup, pint, quart, gallon) | • | • | • | • |

| | Saxon Math 5/4 | Saxon Math 6/5 | Saxon <i>Math 7/6</i> | Saxon Math 8/7 |
|--|-----------------|-----------------|-----------------------|-------------------|
| Weight (ounce, pound, ton) | Main 3/4 | Main 0/3 | Main 7/0 | Main 6// |
| Metric | | | • | |
| Prefixes (milli-, centi-, deci-, deka-, hecto-, kilo-) | • | • | • | • |
| Length (meter) | • | • | • | • |
| Capacity (liter) | | • | • | • |
| Mass (kilogram) | • | - | - | • |
| | • | • | • | • |
| Temperature Fahrenheit scale | | _ | _ | _ |
| | • | • | • | • |
| Celsius scale | • | • | • | • |
| Kelvin scale | | | | |
| Time | | | | |
| Seconds, minutes, and hours | • | • | • | • |
| Days, months, and years | • | • | | |
| Decades, centuries, and millennia | • | • | | |
| Digital and analog time displays | • | • | | |
| Writing time of day | • | • | • | |
| Writing dates | • | • | | |
| Square units | • | • | • | • |
| Cubic units | • | • | • | • |
| Degrees of arc | • | • | • | • |
| Standard abbreviations | • | • | • | • |
| Nonstandard units | • | • | • | • |
| Unit Conversion | | | | |
| Conversion in the U.S. Customary System | • | • | • | • |
| Conversion in the metric system | • | • | • | • |
| Conversion between systems | • | • | • | • |
| Simplifying mixed measures | | • | • | • |
| Unit multipliers | | | • | • |
| Conversion between temperature scales | | | | • |
| Measuring | | | | |
| Length | • | • | • | • |
| Time | • | • | • | |
| Capacity | • | • | • | |
| Mass/weight | • | • | • | |
| Angles | • | • | • | • |
| Rotation (clockwise and counterclockwise) | • | • | • | |
| Benchmarks for measurements | • | • | • | • |
| Measurement activities | • | • | • | • |
| Estimating activities | • | • | • | • |
| Selecting appropriate units | • | • | • | • |
| Using metric scales to reinforce decimal concepts | • | • | , | • |
| Determining whether measures are reasonable | • | • | • | • |
| | • | • | • | • |
| Determining the precision of a measuring tool | | | | _ • |

| | Saxon | Saxon | Saxon | Saxon |
|---|----------|----------|----------|----------|
| | Math 5/4 | Math 6/5 | Math 7/6 | Math 8/7 |
| Indirect Measure | Mun 3/4 | Wan 0/3 | man 770 | Mun 0// |
| Scale factor | | • | • | • |
| Using similar triangles | | | • | • |
| Scale drawings (two-dimensional) | | • | • | • |
| Scale models (three-dimensional) | | • | • | • |
| Tools | | _ | | • |
| Ruler (U.S. Customary and metric) | • | • | • | • |
| Protractor | | • | • | • |
| Thermometer | • | | | |
| | • | • | • | • |
| Balance scale | • | • | | |
| Measuring cup | • | • | • | |
| Stopwatch | • | • | | |
| Geometry | | | T | |
| Basic Terms | | | | |
| Points | • | • | • | • |
| Segments | • | • | • | • |
| Rays | • | • | • | • |
| Lines | • | • | • | • |
| Angles | • | • | • | • |
| Planes | | • | • | • |
| Lines | | | | |
| Parallel, perpendicular, and intersecting | • | • | • | • |
| Horizontal, vertical, and oblique | | • | • | • |
| Slope | | | | • |
| Angles | | | | |
| Acute, obtuse, right, and straight | • | • | • | • |
| Complementary and supplementary | | | • | • |
| Angles formed by transversals | | | • | • |
| Calculate to find unknown angle measures | | | • | • |
| Angle bisectors | | | • | • |
| Vertical | | | | • |
| Adjacent angles | | | | • |
| Polygons | | | | |
| Describing and classifying | • | • | • | • |
| Drawing | • | • | • | • |
| Sides and vertices | • | • | • | • |
| Perimeter | • | • | • | • |
| Area | • | • | • | • |
| Regular | • | • | • | • |
| Similarity and congruence | • | • | • | • |
| Complex figures | | • | • | • |
| Interior and exterior angles | | | • | • |
| Sum of angle measures | | | • | • |
| | | l . | I | <u> </u> |

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|-------------------------------------|-----------------|-----------------|-----------------|-----------------|
| | <i>Math 5/4</i> | <i>Math 6/5</i> | <i>Math 7/6</i> | <i>Math 8/7</i> |
| Diagonals | | | | • |
| Triangles | | | | |
| Perimeter and area | • | • | • | • |
| Acute, obtuse, and right | • | • | • | • |
| Equilateral, isosceles, and scalene | • | • | • | • |
| Proportional triangles | | | | • |
| Pythagorean theorem | | | | • |
| Quadrilaterals | | | | |
| Parallelograms | • | • | • | • |
| Squares | • | • | • | • |
| Rhombuses | • | • | • | • |
| Rectangles | • | • | • | • |
| Trapezoids | • | • | • | • |
| Trapeziums | | • | • | • |
| Kites | | | | • |
| Circles | | | | |
| Center | • | • | • | • |
| Radius and diameter | • | • | • | • |
| Circumference | | • | • | • |
| Pi | | | • | • |
| Area | | | • | • |
| Arcs | | | • | • |
| Sectors | | • | • | • |
| Concentric circles | | | • | • |
| Solids | • | • | • | • |
| Describing and classifying | • | • | • | • |
| Faces, edges, and vertices | • | • | • | • |
| Drawing | • | • | • | • |
| Volume | • | • | • | • |
| Surface area | | | • | • |
| Polyhedrons | | • | • | • |
| Platonic solids | | | • | |
| Nets (maps) | • | • | • | • |
| Perimeter | | | | |
| Polygons | • | • | • | • |
| Circles | | • | • | • |
| Complex figures | | | • | • |
| Area | | | | |
| Triangles | • | | • | • |
| Rectangles | • | • | • | • |
| Parallelograms | | | • | • |
| Trapezoids | | | • | • |
| Circles | | | • | • |

| Math 5/4 Math 6/5 Math 7/6 Math 8/7 | | Saxon | Saxon | Saxon | Saxon |
|--|--|--------------|---------------|--------------|-------|
| Semicircles and sectors | | | | | |
| Complex figures | Semicircles and sectors | 1/200// 0/ / | 1,10,000 0, 0 | 1/10/// // 5 | • |
| Estimating area | | | • | • | • |
| Volume | | • | • | • | |
| Prisms | | | | | |
| Cylinders Pyramids Cones Spheres Estimating volume Coordinate Geometry Naming and graphing ordered pairs Origin Intercepts of a line Slope of a line Slope of a line Creating straigh-line drawings Patterns Tessellations Line symmetry (reflective symmetry) Point symmetry Constructions Circles Congruent segments Congruent angles Angle bisectors Perpendicular bisectors Inscribed polygons Congruent triangles Transformational Geometry Rotation Graphing transformations on the coordinate plane Algebra Patterns Patterns | | • | • | • | • |
| Pyramids | Cylinders | | | • | • |
| Cones | · · | | | • | • |
| Spheres Stimating volume Stimating volume Stimating volume Stopped factor Stimating volume Stopped factor Sto | | | | | • |
| Estimating volume Coordinate Geometry Naming and graphing ordered pairs Origin Intercepts of a line Slope of a line Creating straight-line drawings Patterns Icine symmetry (reflective symmetry) Rotational symmetry Point symmetry Point symmetry Constructions Circles Congruent angles Angle bisectors Perpendicular bisectors Inscribed polygons Congruent triangles Transformational Geometry Rotation Reflection Reflection Patterns Numeric patterns Numeric patterns Numeric patterns Story-problem patterns Triangular numbers Coding and decoding Palindromes • • • • • • • • • • • • • • • • • • • | | | | | • |
| Coordinate Geometry | 1 | | | | • |
| Naming and graphing ordered pairs • • • • • • • • • • • • • • • • • • • | | | | | |
| Origin • • • • • • • • • • • • • • • • • • • | | • | • | • | • |
| Intercepts of a line | | | • | • | • |
| Slope of a line | | | | | • |
| Creating straight-line drawings Patterns Tessellations Line symmetry (reflective symmetry) Rotational symmetry Point symmetry Constructions Circles Congruent segments Congruent angles Angle bisectors Perpendicular bisectors Inscribed polygons Congruent triangles Transformational Geometry Rotation Reflection Translation Graphing transformations on the coordinate plane Algebra Patterns Numeric patterns Geometric patterns Story-problem patterns Triangular numbers Coding and decoding Palindromes • • • • • • • • • • • • • • • • • • • | | | | | • |
| Patterns • • • • • • • • • • • • • • • • • • • | | • | • | • | • |
| Tessellations Line symmetry (reflective symmetry) Rotational symmetry Point symmetry Constructions Circles Congruent segments Congruent angles Angle bisectors Perpendicular bisectors Inscribed polygons Congruent triangles Transformational Geometry Rotation Reflection Translation Graphing transformations on the coordinate plane Algebra Patterns Numeric patterns Geometric patterns Story-problem patterns Triangular numbers Coding and decoding Palindromes • • • • • • • • • • • • • • • • • • • | | | | | |
| Line symmetry (reflective symmetry) • • • • • • • • • • • • • • • • • • | | • | • | | |
| Rotational symmetry | | • | • | • | • |
| Point symmetry | | | • | | |
| Constructions • • • • • • • • • • • • • • • • • • • | | | | | • |
| Circles • • Congruent segments • • Congruent angles • • Angle bisectors • • Perpendicular bisectors • • Inscribed polygons • • Congruent triangles • • Transformational Geometry • • Rotation • • • Reflection • • • Translation • • • Graphing transformations on the coordinate plane • • Algebra • • • Patterns • • • Numeric patterns • • • Geometric patterns • • • Story-problem patterns • • • Triangular numbers • • • Coding and decoding • • • | The state of the s | | | | |
| Congruent segments • Congruent angles • Angle bisectors • Perpendicular bisectors • Inscribed polygons • Congruent triangles • Transformational Geometry • Rotation • • Reflection • • Translation • • Graphing transformations on the coordinate plane • • Algebra Patterns • • • Numeric patterns • • • Geometric patterns • • • Story-problem patterns • • • Triangular numbers • • • Coding and decoding • • Palindromes • • | | • | | • | • |
| Congruent angles • Angle bisectors • Perpendicular bisectors • Inscribed polygons • Congruent triangles • Transformational Geometry • Rotation • • Reflection • • Translation • • Graphing transformations on the coordinate plane • • Algebra Patterns Numeric patterns • • Geometric patterns • • • Geometric patterns • • • Story-problem patterns • • • Triangular numbers • • • Coding and decoding • • Palindromes • • | | | | | • |
| Angle bisectors • • Perpendicular bisectors • • Inscribed polygons • • Congruent triangles • • Transformational Geometry • • Rotation • • • Reflection • • • Translation • • • Graphing transformations on the coordinate plane • • Algebra Patterns • • • Numeric patterns • • • Geometric patterns • • • Story-problem patterns • • • Triangular numbers • • • Coding and decoding • • Palindromes • • | | | | | • |
| Perpendicular bisectors | | | | • | • |
| Inscribed polygons Congruent triangles Transformational Geometry Rotation Reflection Translation Graphing transformations on the coordinate plane Algebra Patterns Numeric patterns Geometric patterns Story-problem patterns Triangular numbers Coding and decoding Palindromes | | | | • | • |
| Congruent triangles • Transformational Geometry • Rotation • • Reflection • • Translation • • Graphing transformations on the coordinate plane • Algebra Patterns Image: Comparity of the coordinate plane Numeric patterns • • Geometric patterns • • Story-problem patterns • • Triangular numbers • • Coding and decoding • • Palindromes • • | | | | | • |
| Transformational Geometry • • • • • • Rotation • • • • • • Reflection • • • • • Translation • • • • • Graphing transformations on the coordinate plane • • Algebra • • • • • Patterns • • • • • • • Numeric patterns • • • • • • • Geometric patterns • • • • • • • Story-problem patterns • • • • • • • Triangular numbers • • • • • • • Coding and decoding • • • • • • Palindromes • • • • • • • • • | | | | | • |
| Rotation Reflection Reflection Translation Graphing transformations on the coordinate plane Algebra Patterns Numeric patterns Story-problem patterns Triangular numbers Coding and decoding Palindromes | | | | | |
| Translation Graphing transformations on the coordinate plane Algebra Patterns Numeric patterns Geometric patterns Story-problem patterns Triangular numbers Coding and decoding Palindromes • • • • • • • • • • • • • • • • • • • | | • | • | • | • |
| Translation Graphing transformations on the coordinate plane Algebra Patterns Numeric patterns Geometric patterns Story-problem patterns Triangular numbers Coding and decoding Palindromes • • • • • • • • • • • • • • • • • • • | Reflection | • | • | • | • |
| Graphing transformations on the coordinate plane Algebra Patterns Numeric patterns Geometric patterns Story-problem patterns Triangular numbers Coding and decoding Palindromes | | • | • | • | • |
| Algebra Patterns | | | | | • |
| Patterns • • • Numeric patterns • • • Geometric patterns • • • Story-problem patterns • • • Triangular numbers • • • Coding and decoding • • • Palindromes • • • | | | | | |
| Numeric patterns Geometric patterns Story-problem patterns Triangular numbers Coding and decoding Palindromes | _ Ŭ | | | | |
| Geometric patterns Story-problem patterns Triangular numbers Coding and decoding Palindromes • • • • • • • • • • • • • • • • • • • | | • | • | • | • |
| Story-problem patterns Triangular numbers Coding and decoding Palindromes • • • • • • • • • • • • • • • • • • | | • | • | • | • |
| Triangular numbers Coding and decoding Palindromes • • • • Palindromes | | • | • | • | • |
| Coding and decoding Palindromes • • • | | • | • | • | • |
| Palindromes • | | • | | | |
| | | | | | • |
| | Pascal's triangle | • | | | |

| | Saxon | Saxon | Saxon | Saxon |
|---|-----------------|----------|-----------------|-----------------|
| | <i>Math 5/4</i> | Math 6/5 | <i>Math 7/6</i> | <i>Math 8/7</i> |
| Sierpinski's triangle | | | | • |
| Sequences | | | | |
| Terms | | • | • | • |
| Period | | • | | |
| Arithmetic sequences | • | • | • | • |
| Geometric sequences | • | • | • | • |
| Pictorial sequences | • | • | • | • |
| Fibonacci sequence | • | • | • | • |
| Integers | | | | |
| Adding and subtracting integers/signed numbers | | | • | • |
| Multiplying and dividing integers/signed numbers | | | • | • |
| Absolute value | | | | • |
| Algebraic Concepts and Procedures | | | | |
| Variables | • | • | • | • |
| Symbols of inclusion | • | • | • | • |
| Evaluating | • | | • | • |
| Substitution | | • | • | • |
| Constants | | | | • |
| Coefficients | | | | • |
| Polynomials | | | | • |
| Simplifying | | | | • |
| Factoring | | | | • |
| Combining like terms | | | | • |
| Equations Equations | | | | |
| Solving for an unknown | • | • | • | • |
| Solving multi-step equations | • | • | • | • |
| Writing an equation for a given word problem | • | • | • | • |
| Writing a word problem for a given equation | | • | | • |
| Transforming equations (using the addition rule and the | | - | | |
| multiplication rule) | | | • | • |
| Balance scale as a model for solving equations | • | • | | • |
| Nonlinear equations | | | | • |
| Solving simple quadratic equations | | | | • |
| Literal equations | | | | • |
| Inequalities | | | | |
| Solving | | | | • |
| Graphing on a number line | | | | • |
| Graphing on a coordinate plane | | | | • |
| Functions | | | | |
| Formulas | | • | • | • |
| | • | • | | |
| | • | • | • | • |
| Input-output tables Function rules | | | • | |

| | Saxon | Saxon | Saxon | Saxon |
|--|---------------|-------------|----------|----------|
| | Math 5/4 | Math 6/5 | Math 7/6 | Math 8/7 |
| Linear functions | 1,10,111 5/ 1 | 1/10/11/0/5 | • | • |
| Nonlinear functions | | | | • |
| Analyzing functional relationships | | | • | • |
| Rates | | | • | • |
| Properties | | | | |
| Associative property of addition | • | • | • | • |
| Commutative property of addition | • | • | • | • |
| Associative property of multiplication | • | • | • | • |
| Commutative property of multiplication | • | • | • | • |
| Identity property of multiplication | • | • | • | • |
| Distributive property | • | • | • | • |
| Zero property of multiplication | • | • | • | • |
| Graphing | | | | |
| Number line | • | • | • | • |
| Coordinate plane | • | • | • | • |
| Origin | | • | • | • |
| Quadrants | | | | • |
| Graphing points | • | • | • | • |
| Graphing lines | | | • | • |
| Graphing parabolas | | | | • |
| Graphing hyperbolas | | | | • |
| Graphing inequalities | | | | • |
| Slope-intercept form | | | | • |
| Statistics, Data Analysis, and Probability | | | | |
| Statistics and Data Analysis | | | | |
| Collecting Data | | | | |
| Tallies | • | • | • | • |
| Surveys | • | • | • | |
| Closed-option questions | • | | • | |
| Open-option questions | • | | • | |
| Quantitative data | | • | • | |
| Qualitative data | | • | • | |
| Populations | • | | • | |
| Representative samples | • | | • | |
| Bias | • | | • | |
| Organizing and Analyzing Data | | | | |
| Tables | • | • | • | • |
| Frequency tables | • | • | • | • |
| Average | • | • | • | • |
| Mean, median, mode, and range | • | • | • | • |
| Selecting the best measure of central tendency for a given situation | | | • | • |
| Choosing an appropriate graph | • | • | • | |
| | • | | • | • |

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|--|-----------------|-----------------|-----------------|-----------------|
| | <i>Math 5/4</i> | <i>Math 6/5</i> | <i>Math 7/6</i> | <i>Math 8/7</i> |
| Identifying misleading graphs | | | | • |
| Outliers | • | • | • | • |
| Clusters | | • | | |
| Quartiles | | | | • |
| Making predictions based on statistics | | • | • | • |
| Schedules | • | • | | |
| Representing Data | | | | |
| Legend (key) | • | • | • | • |
| Bar graphs | • | • | • | • |
| Comparative bar graphs (double-bar graphs) | | • | • | • |
| Histograms | | • | • | • |
| Line graphs | • | • | • | • |
| Double-line graphs | | • | • | • |
| Circle graphs (pie graphs) | • | • | • | • |
| Pictographs | • | • | • | • |
| Line plots | | • | • | |
| Stem-and-leaf plots | | • | • | • |
| Box-and-whisker plots | | | | • |
| Venn diagrams | | • | | • |
| Coordinate planes | • | • | • | • |
| Probability | | | | |
| Notations for expressing probability | • | • | • | • |
| Theoretical Probability | | | | |
| Classifying events as impossible, unlikely, likely, or certain | | • | • | |
| Simple probability | • | • | • | • |
| Chance | • | • | • | • |
| Odds | | | • | • |
| Outcomes | • | • | • | • |
| Independent events | | | | • |
| Dependent events | | | | • |
| Sample spaces | | • | | • |
| Tree diagrams | | | • | • |
| Permutations | | • | • | • |
| Combinations | | | • | • |
| Experimental Probability | | | | |
| Performing probability experiments | • | • | • | • |
| Making predictions based on experiments | • | • | • | |
| Accuracy of predictions as affected by number of trials | • | | • | • |
| Compound experiments | | • | • | • |
| Experiment tables | • | • | • | • |
| Problem-Solving Strategies | | | | |
| | | | | |
| Break a problem into simpler parts | • | • | • | • |

| | Saxon | Saxon | Saxon | Saxon |
|---|----------|-----------------|-----------------|-----------------|
| | Math 5/4 | <i>Math 6/5</i> | <i>Math 7/6</i> | <i>Math 8/7</i> |
| Act out the problem | • | • | • | • |
| Use logical reasoning | • | • | • | • |
| Draw a diagram | • | • | • | • |
| Draw a picture | • | • | • | • |
| Find a pattern | • | • | • | • |
| Work backward | • | • | • | • |
| Make a chart, graph, or list | • | • | • | • |
| Guess and check (trial and error) | • | • | • | • |
| Distinguish between relevant and irrelevant information | • | • | • | • |
| Find missing information | • | • | • | • |
| Extend patterns | • | • | • | • |
| Apply solution strategies for simple problems to complex problems | • | • | • | • |
| Use an algorithm | • | • | • | • |