Mastery Bank Recommended Topics by Textbook

Topic	Sub Topic	Recommended skills to have if you will be entering...								
		Saxon 5/4 or Intermediate 5	Saxon 6/5 or Intermediate 5	Saxon 7/6 or Course 1	Saxon 8/7 or Course 2	Algebra 1/2 or Course 3	Algebra 1	Algebra 2	Geometry	Advanced Math
Time	Reading Time on a Clock on the 5 or 10 minute mark	X	X	X	X	X	X	X	X	X
	Reading Time on a Clock	X	X	X	X	X	X	X	X	X
Numbers & Properties	Whole Numbers on a Number Line	X	X	X	X	X	X	X	X	X
	Comparing Whole Numbers	X	X	X	X	X	X	X	X	X
	Properties of Operations (Commutative, Distributive, Associative, Identity)				X	X	X	X	X	X
	Complete the Sequence		X	X	X	X	X	X	X	X
Place Value	The Hundreds Place	X	X	X	X	X	X	X	X	X
	Numbers up to 999	X	X	X	X	X	X	X	X	X
	Numbers up to the Hundred Thousands		X	X	X	X	X	X	X	X
	Numbers up to the Hundred Millions		X	X	X	X	X	X	X	X
Rounding	Rounding Numbers to the Nearest Ten	X	X	X	X	X	X	X	X	X
	Rounding Numbers to the Nearest Hundred		X	X	X	X	X	X	X	X
	Rounding Numbers to the Nearest Thousand		X	X	X	X	X	X	X	X
	Rounding Numbers to the Nearest Million,Billion and Trillions			X	X	X	X	X	X	X
	Estimating Addition and Subtraction Answers		X	X	X	X	X	X	X	X
	Estimating Multiplication and Division Answers		X	X	X	X	X	X	X	X
Addition	Addition with Two Digits - No Regrouping	X	X	X	X	X	X	X	X	X
	Addition with Two Digits - Some Regrouping	X	X	X	X	X	X	X	X	X
	Addition with Three Digits - No Regrouping	X	X	X	X	X	X	X	X	X
	Addition with Three Digits - Some Regrouping	X	X	X	X	X	X	X	X	X
	Addition with More Than Three Digits	X	X	X	X	X	X	X	X	X
Subtraction	Subtraction with Two Digits - No Regrouping	X	X	X	X	X	X	X	X	X
	Subtraction with Two Digits - Some Regrouping	X	X	X	X	X	X	X	X	X
	Subtraction with Three Digits - No Regrouping	X	X	X	X	X	X	X	X	X
	Subtraction with Three Digits - Some Regrouping	X	X	X	X	X	X	X	X	X
	Subtraction with More Than Three Digits	X	X	X	X	X	X	X	X	X
	Subtraction Across Zero	X	X	X	X	X	X	X	X	X
Multiplication	Multiply Two Digit by One Digit - No Regrouping	X	X	X	X	X	X	X	X	X
	Multiply Two Digit by One Digit - Regrouping	X	X	X	X	X	X	X	X	X
	Multiply Three Digit by One Digit - Regrouping	X	X	X	X	X	X	X	X	X
	Multiply Three Digit by One Digit	X	X	X	X	X	X	X	X	X
	Multiply Two Digit by Two Digit		X	X	X	X	X	X	X	X
	Multiply Three Digit by Two Digit			X	X	X	X	X	X	X
	Multiply Three Digit by Three Digit			X	X	X	X	X	X	X
	Multiplication by 7	X	X	X	X	X	X	X	X	X
	Multiplication by 9	X	X	X	X	X	X	X	X	X
	Multiplication by 10	X	X	X	X	X	X	X	X	X
	Multiplication by Multiples of 10			X	X	X	X	X	X	X
	Multiplication by 12			X	X	X	X	X	X	X
	Dividing by a One-Digit Divsor - With Remainders	X	X	X	X	X	X	X	X	X
	Dividing by a One-Digit Divsor- No Remainders	X	X	X	X	X	X	X	X	X

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Division	Dividing by a Two-Digit Divisor - Beginner			X	X	X	X	X	X	X
	Dividing by a Two-Digit Divisor - Advanced				X	X	X	X	X	X
	Dividing by 10	X	X	X	X	X	X	X	X	X
	Dividing by Multiples of 10			X	X	X	X	X	X	X
	Dividing with Zeros in the Quotient		X	X	X	X	X	X	X	X
Missing Numbers	Missing numbers in Addition (2 Addends)	X	X	X	X	X	X	X	X	X
	Missing numbers in Addition (3 or More Addends)				X	X	X	X	X	X
	Missing Numbers in Subtraction		X	X	X	X	X	X	X	X
	Missing Numbers in Multiplication			X	X	X	X	X	X	X
	Missing Numbers in Division			X	X	X	X	X	X	X
	Missing Numbers - Mixed (Addition, Subtraction, Multiplication and Division)			X	X	X	X	X	X	X
	Missing Numbers - Mixed (Addition, Subtraction, Multiplication and Division) with 3 or more addends				X	X	X	X	X	X
Money	Rounding Dollars		X	X	X	X	X	X	X	X
	Adding Money		X	X	X	X	X	X	X	X
	Subtracting Money		X	X	X	X	X	X	X	X
Word Problems	Addition Word Problems		X	X	X	X	X	X	X	X
	Subtraction Word Problems		X	X	X	X	X	X	X	X
	Multiplication Word Problems		X	X	X	X	X	X	X	X
	Division Word Problems		X	X	X	X	X	X	X	X
	Mixed Word Problems (Addition, Subtraction, Multiplication, Division)			X	X	X	X	X	X	X
	Word problems with remainders		X	X	X	X	X	X	X	X
	Two-Step Word problems		X	X	X	X	X	X	X	X
	Rate Word problems		X	X	X	X	X	X	X	X
	Fractions of a Group			X	X	X	X	X	X	X
Order Of Operations	Order of Operations with Parentheses and No Parentheses (Beginner)				X	X	X	X	X	X
	Order of Operations with Parentheses and No Parentheses (Advanced)				X	X	X	X	X	X
	Order of Operations with Exponents and Sqaure roots (Intermediate)				X	X	X	X	X	X
	Order of Operations with Exponents and Sqaure roots (Beginner)				X	X	X	X	X	X
	Divisibility Rules (2, 3,4, 6, 8, 9)				X	X	X	X	X	X
Factors & Multiples	Factors			X	X	X	X	X	X	X
	Greatest Common Factor				X	X	X	X	X	X
	Least Common Multiples				X	X	X	X	X	X
	Naming Fractions	X	X	X	X	X	X	X	X	X
	Reading Fractions on a Number Line		X	X	X	X	X	X	X	X
	Rounding Fractions			X	X	X	X	X	X	X

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Fraction Basics	Equivalent Fractions			X	X	X	X	X	X	X
	Simplifying Fractions - Easy			X	X	X	X	X	X	X
	Simplifying Fractions - Hard			X	X	X	X	X	X	X
	Comparing Fractions			X	X	X	X	X	X	X
	Convert Improper Fractions to Whole/Mixed Numbers - No Simplifying		X	X	X	X	X	X	X	X
	Convert Improper Fractions to Whole/Mixed Numbers - Simplifying			X	X	X	X	X	X	X
	Converting Mixed Numbers to Improper Fractions			X	X	X	X	X	X	X
Adding and Subtracting Fractions - Common Denominators	Adding Fractions with Common Denominators	X	X	X	X	X	X	X	X	X
	Subtracting Fractions with Common Denominators	X	X	X	X	X	X	X	X	X
	Adding and Subtracting Mixed Numbers with Common Denominators - No Regrouping				X	X	X	X	X	X
	Adding and Subtracting Mixed Numbers with Common Denominators - Regrouping the Final Answer				X	X	X	X	X	X
Adding and Subtracting Fractions - Uncommon Denominators	Adding Fractions with Different Denominators			X	X	X	X	X	X	X
	Subtracting Fractions with Different Denominators			X	X	X	X	X	X	X
	Adding and Subtracting Mixed Numbers with Different Denominators - No Regrouping				X	X	X	X	X	X
	Adding Mixed Numbers with Different Denominators (with regrouping)				X	X	X	X	X	X
	Adding Mixed Numbers with Different Denominators - No regrouping				X	X	X	X	X	X
	Subtracting Mixed Numbers with Common and Uncommon Denominators				X	X	X	X	X	X
Multiplying and Dividing Fractions	Multiplying Fractions - No Simplifying				X	X	X	X	X	X
	Multiplying Fractions - Simplifying				X	X	X	X	X	X
	Multiplying Fractions with a Whole Number				X	X	X	X	X	X
	Multiplying Fractions and Mixed Numbers				X	X	X	X	X	X
	Multiplying Two Mixed Numbers				X	X	X	X	X	X
	Dividing Fractions				X	X	X	X	X	X
	Dividing Mixed Numbers -Easy				X	X	X	X	X	X
	Dividing Mixed Numbers - Hard				X	X	X	X	X	X
Advanced Fractions	Complex Fractions					X	X	X	X	X
	Fractions Calculations				X	X	X	X	X	X
Decimal Basics	Naming Decimals		X	X	X	X	X	X	X	X
	Place Value of Decimals		X	X	X	X	X	X	X	X
	Reading Decimals on a Number Line			X	X	X	X	X	X	X
	Rounding Decimals			X	X	X	X	X	X	X
	Comparing Decimals			X	X	X	X	X	X	X
	Adding and subtracting decimal numbers		X	X	X	X	X	X	X	X

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Decimals: Adding, Subtracting, Multiplying and Dividing	Multiplying Decimals				X	X	X	X	X	X
	Multiplying Decimals by 10,100 and 1000				X	X	X	X	X	X
	Dividing with Decimals in the Dividend				X	X	X	X	X	X
	Dividing Decimals by 10, 100 and 1000				X	X	X	X	X	X
	Divising with Decimals in the Divisor				X	X	X	X	X	X
	Dividing with Decimals in the Divdend and in the Divisor				X	X	X	X	X	X
Percents	Percent of a Number(New)(Less than 100%)				X	X	X	X	X	X
	Percent of a Number(New)(More than 100%)					X	X	X	X	X
	Percent Calculations				X	X	X	X	X	X
	Simple Rate Problems					X	X	X	X	X
	Complex Rate Problems					X	X	X	X	X
	Simple interest problems					X	X	X	X	X
	Compound interest problems					X	X	X	X	X
Conversions - Decimals, Fractions and Percents	Converting Fractions to Decimals				X	X	X	X	X	X
	Converting Fractions to Percents				X	X	X	X	X	X
	Converting Decimals to Fractions				X	X	X	X	X	X
	Converting Decimals to Percents				X	X	X	X	X	X
	Converting Percents to Decimals				X	X	X	X	X	X
	Converting Percents to Fractions				X	X	X	X	X	X
	Converting Mixed Number Percents to Fractions					X	X	X	X	X
	Converting Mixed Number Percents to Decimals					X	X	X	X	X
	Conversions - Mixed					X	X	X	X	X
	Converting Repeating Decimal Number to Fractions									X
What Number? Fraction? Percent? Problems	What Number?, What Fraction? and What Percent? Problems (Fraction and Percent calculations)					X	X	X	X	X
Ratio and Proportions	Solving Proportions				X	X	X	X	X	X
	Unit Rate					X	X	X	X	X
	Ratio Word Problems				X	X	X	X	X	X
	Ratio Word Problems Involving Totals				X	X	X	X	X	X
	Ratio Word Problems with Percents					X	X	X	X	X
Integers - Positive and Negative Numbers	Number Lines - Positive and Negative Numbers				X	X	X	X	X	X
	Comparison - Postive and Negative Numbers					X	X	X	X	X
	Multiplying and Dividing Positive and Negative Numbers					X	X	X	X	X
	Addition Using Negative Numbers					X	X	X	X	X
	Subtraction Using Negative Numbers					X	X	X	X	X
Basic Exponents	Positive Exponents					X	X	X	X	X
	Powers of Negative Numbers					X	X	X	X	X
	Negative Exponents					X	X	X	X	X
	Law of Exponents (Multiplying and Dividing same bases with Exponents and Raising a Power to a Power)							X	X	X
Scientific Notation	Scientific Notation for Very Large and Very Small Numbers							X	X	X

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Scientific Notation	Multiplying and Dividing Numbers in scientific Notation							X	X	X
Square Roots	Perfect Square Roots				X	X	X	X	X	X
	Non-Perfect Square Roots							X		X
	Adding and Subtracting Radicals							X		X
	Multiplying and Dividing Radicals							X		X
	Rationalize the Denominator									X
Measurement (Unit Multipliers)	Arithmetic with Units of Measure				X	X	X	X	X	X
	Measurement Conversions - Unit Multipliers				X	X		X	X	X
	Measurement Conversations - Squared Unit Multiplers							X	X	X
	Measurement Conversations - Cubed Unit Multiplers							X	X	X
Probability & Statistics	Finding the Average				X	X	X	X	X	X
	Finding the Number when given the Average					X	X	X	X	X
	Mean, Median, Range, Mode					X	X	X	X	X
Algebraic Terms and Expressions	Simplifying Terms							X	X	X
	Adding and Subtracting Terms							X	X	X
	Multiplying and Dividing Terms							X	X	X
	Distributing Terms							X	X	X
	Factoring Algebraic Expressions							X	X	X
	Evaluating Expressions							X	X	X
	Factoring Binomials							X	X	X
	Factoring Trinomials							X	X	X
	Multiplying Monomials							X	X	X
	Multiplying Binomials							X	X	X
	Multiplying Polynomials							X	X	X
Linear Equations	One-Step Equations							X	X	X
	Two-Step Equations							X	X	X
	Parts of an Equation: Finding x and y-intercepts							X	X	X
	Finding slope and y-intercept by reading a graph							X	X	X
	Finding slope and y-intercept using y=mx + b							X	X	X
System of Equations	Solving Systems of Equations - Substitution & Elimination							X	X	X
Inequalities	Solving Linear Inequalities							X	X	X
	Graphing Inequalities							X	X	X
Perimeter	Perimeter				X	X	X	X	X	X
	Perimeter of Complex Shapes									X
Area	Area of a Rectangle				X	X	X	X	X	X
	Area of a Triangle					X	X	X	X	X
	Area of a Circle					X	X	X	X	X
	Area of Rectangles, Triangles and Circles					X	X	X	X	X
	Area of Complex Shapes					X	X			X
	Area of Parallelogram					X	X	X	X	X

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Surface Area	Surface Area - Rectangular Prism, Triangular Prisms							X	X	X
	Surface Area - Cylinders							X	X	X
	Surface Area - Cones & Pyramids							X	X	X
	Surface Area - Spheres							X	X	X
	Surface Area of Right Solids							X	X	X
Volume	Volume - Rectangular Prisms, Triangular Prisms							X	X	X
	Volume - Cylinders							X	X	X
	Volume - Cones & Pyramids							X	X	X
	Volume - Spheres							X	X	X
	Volume of Complex Shapes									X
Lines	Distinguishing between a Line and a Line Segment				X	X	X	X	X	X
	Distinguishing Between Parallel and Perpendicular Lines					X	X	X	X	X
Angles	Complementary and Supplementary Angles							X	X	X
	Vertical, Corresponding, Alternate Interior, Alternate Exterior Angles, Same-Side Interior Angles							X	X	X
	Angles of Elevation & Depression									X
Triangles	Pythagorean Theorem							X	X	X
	Finding the Missing Angle of a Triangle							X	X	X
	Identifying: Right, Acute, and Obtuse Triangles Isosceles							X	X	X
	Identifying: Isoceles, Scalene, and Equilateral Triangles							X	X	X
	Corresponding Parts of Similar Traingles									X
Coordinate Plane	Plotting Points on the Coordinate Plane	X	X	X	X	X	X	X	X	X
	Midpoint of a Line Segment on a Coordinate Plane								X	X

OVER 200 TOPICS AND MORE TO COME!