

# Digital Intervention

## Skills Rainbow

The TouchMath Skills Rainbow includes the **key foundational skills** students need to succeed in different math domains. Skill strands build vertically from Number Sense through Algebra in the same manner as standard math progressions. Each skill strand includes 10 key foundational skills which grow in difficulty and grade level as you move to the right. This presentation gives educators (who may be unfamiliar with how math skills are strategically scaffolded) the ability to quickly identify a skill within each domain for targeted intervention. Hover/click each skill dot to view the skill description, grade-level association, sample interactive problems, and strategies.\*

It's not necessary to fully complete a skill strand before moving onto the next. In most cases, students will move upwards before moving to the right. Assessment plans will identify the starting point based on real-time student responses. Learning Target and Reinforcement plans will both guide next steps throughout the lesson. In all lesson modes, the foundational skill dot will be highlighted on the Skills Rainbow for quick and easy intervention. Reference the strategies for each skill to view next steps and/or crosswalk with the TouchMath Standards Edition Curriculum.

TouchPoint skills are offered at the base on the Skills Rainbow for students that are new to TouchMath or for students that are best suited using the TouchMath approach for basic counting and computations. TouchPoint skills are integrated in the algorithm and may appear during Assessment and Learning Target plans. Please make sure your students are familiar with the TouchMath touching/counting patterns and the TouchMath systematic approach. It is recommended that you work 1:1 with all students to make sure they understand the presented skill and to validate there are no digital barriers.

*\* The Skills Rainbow is not a full representation of math progressions, but rather the key foundational skills from which all other skills are built upon. The grade-level association of each skill is approximate based on standards alignment and available Focus customizations.*

	SKILL 1	SKILL 2	SKILL 3	SKILL 4	SKILL 5	SKILL 6	SKILL 7	SKILL 8	SKILL 9	SKILL 10
Algebra	Make a Number Using Addition & Subtraction Grade: K	Add and Subtract within 10 Using Pictures Grade: 1	Fact Families within 100 Grade: 2	Solve for the Variable (within 144) Grade: 3	Make a Repeating Pattern with Pictures Grade: 4	Two-Variable Relationship Table Grade: 5	Write Numerical Expressions Grade: 5	Write Variable Expressions Grade: 6	Identify Parts of an Expression Grade: 6	Graph Inequalities on a Number Line Grade: 6
Statistics & Probability	Interpret Data in Two and Three Categories Grade: 1	Picture Graphs with Three and Four Categories Grade: 2	Bar Graphs with Up to Six Categories Grade: 3	Line Plots (Whole, Halves, Fourths) 8 Data Points Grade: 3	Line Plots (Halves, Fourths, Eighths) 15 Data Points Grade: 4	Interpret Data Line Plots Grade: 5	Identify Statistical Questions Grade: 6	Display Quantitative Data on a Histogram Grade: 6	Interpret Data from Histograms Grade: 6	Calculate Mean, Median, Mode, and Range Grade: 6
Fractions	Fractions Using Fraction Bars Grade: 3	Fractions Using Number Lines Grade: 3	Equivalent Fractions Using Models Grade: 3	Identify Equivalent Fractions Grade: 4	Composing Fractions with Like Denominators Grade: 4	Find the Missing Factor Using Models Grade: 4	Add & Subtract with Unlike Denominators Grade: 5	Relating Fractions and Division Grade: 5	Multiply Fractions Using Models Grade: 5	Divide Fractions by Whole Number Grade: 5
Geometry	Identify 2-D and 3-D Shapes Grade: K	Identify Shapes by Sides and Corners Grade: K	Identify Shapes and their Attributes Grade: 1	Tile Rectangles to Find Area Grade: 2	Identify Quadrilaterals Grade: 3	Identify Lines and Angles Grade: 4	Recognize Lines of Symmetry Grade: 4	Using a Coordinate Plane Grade: 5	Identify Shapes by Attributes Grade: 5	Measure Volume of Fractional Edge Lengths Grade: 6
Measurement & Data	Measurable Attributes of Objects Grade: K	Classify Objects Into Categories Grade: K	Compare Lengths of Three Objects Grade: 1	Telling and Writing Time Grade: 1	Measuring Length of Objects Grade: 2	Graphing Data Grade: 3	Line Plot to Display a Data Set Grade: 4	Convert Standard Measurements Grade: 5	Measure Volume by Counting Unit Cubes Grade: 5	Measure Volume of Rectangular Prisms Grade: 5
Division	Subtract Multiples of 10 Grade: 1-2	Division as Objects in Equal Groups Grade: 3	Relate Arrays and Division Sentences Grade: 3	Relate Multiplication and Division Grade: 3	Division as an Unknown Factor Problem Grade: 3	Division Fluency within 144 Grade: 3	Relationship Between Place Values Grade: 4	Up to 4 Digits by up to 2 Digits No Remainders Grade: 4	Up to 4 Digits by up to 2 Digits With Remainders Grade: 5	Divide to Find Equivalent Ratios Grade: 6
Multiplication	Find Groups of Tens and Add Ones Grade: 1	Compare Multiples of 5, 10, and 100 Grade: 2	Multiplication as Equal Groups of Objects Grade: 3	Multiplication as Repeated Addition Grade: 3	Multiplication Fluency within 144 Grade: 3	Multiplication as a Comparison Grade: 4	Identify Unknown Factors Grade: 4	Multiply Improper Fractions Grade: 5	Multiply Ratios Grade: 6	Multiply to Find Equivalent Ratios Grade: 6
Subtraction	Decompose Numbers within 10 Grade: K	Add and Subtract within 20 Grade: K	Unknowns within 20 Grade: 1	Subtraction as an Unknown Addend Problem Grade: 1	Subtraction within 100 Grade: 2	Subtract Multiples of 10 & 100 Grade: 2	Three-Digit Subtraction with Unknowns Grade: 2-3	Compare Numerical Patterns Grade: 4-5	Subtract Whole Numbers within 99,999 Grade: 5	Subtract Decimals Ten Thousands to Hundredths Grade: 5-6
Addition	Find the Missing Number Grade: K	Counting On & Making 10 (within 20) Grade: K	Even & Odd Numbers to 20 Grade: K-1	Addition without Regrouping Grade: 1-2	Compare Multi-Digit Numbers Grade: 2-3	Identify Arithmetic Patterns Grade: 2-3	Addition with Regrouping Grade: 3-4	Compare Numerical Patterns Grade: 4-5	Write Addition Expressions Grade: 5	Identify Parts of an Expression Grade: 6
Base Ten	Quantities to 20 Grade: K	Identify the Larger Number Grade: 1	Two-Digit Addition without Regrouping Grade: 1	Subtract Multiples of 10 without Regrouping Grade: 1	Add & Subtract within 100 (No Regrouping) Grade: 2	Round to Nearest Tenth or Hundredth Grade: 3	Place Value with Base Ten Models Grade: 4	Numbers Using Expanded Form Grade: 5	Place Value & Expanded Form Grade: 5	Mixed Operations with Decimals Grade: 6
Number Sense	Count to 10 Grade: K	Count to 20 Grade: K	More Than/Less Than within 20 Grade: 1	Make 10 Strategy for Addition Grade: 1	Add & Subtract without Regrouping Grade: 2	Order Numbers Least to Greatest Grade: 3	Mixed Operations with and without Decimals Grade: 4-5	Identify Larger & Smaller Numbers Grade: 4-5	Mixed Operations Grade: 5	Identify the Largest Number Grade: 6
TouchPoints	Learning Touching/Counting Patterns Grade: PK-2	Placing TouchPoints Grade: PK-2	Identify Correct TouchPoint Placement Grade: K-2	Single Digit Counting On Using TouchPoints Grade: 1-2	Double Digit Counting On Using TouchPoints Grade: 1-2	Backward Counting Using TouchPoints Grade: 1-2	Skip Counting Using TouchPoints Grade: 2-4	Multiplication Using TouchPoints Grade: 2-6	Place Value Using TouchPoints Grade: 2-6	Coin Value Using TouchPoints and TouchStars Grade: K-6