

TOUCHMATH[®]

PRE K-UPPER GRADES SE
STANDARDS EDITION



SCOPE & SEQUENCE



TOUCHMATH SE SCOPE & SEQUENCE

Pre-K – Upper Grades

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Updated November 2022

TouchMath Scope & Sequence is designed to clearly outline the scaffolding of the content in TouchMath Pre-K, Kindergarten, First Grade, Second Grade, and Upper Grades Standards Edition units.

The Scope & Sequence is organized by unit, modules, classification, CRA (Concrete-Representational-Abstract), UDL (Universal Design for Learning), and grade level pacing and connection. Scaffolding is evident through review of this document, designed to address each step of the developmental process for students to learn to use numbers to compute, reason, and think. Problem solving with numbers is the end result.

The scaffolding is two-fold: content and approach. The content in the skills is task-analyzed and broken down into small-size chunks that are often needed for learners requiring intervention and/or special education. The approach incorporates kinesthetic, visual, and abstract techniques. Both the content and approach are scaffolded to build success for learners and pave the road for independence in working with numbers.

TouchMath Standards Edition units are aligned with current, rigorous state standards — and follows current state ESSA plans that mandate a culture of high expectations for all students — from those who need remedial support to students benefiting from RtI and MTSS interventions to Special Education students with IEPs and students with disabilities. TouchMath incorporates the CRA approach, allowing all students to access a range of tools for building the foundational math skills they must master if they are to succeed in pre-algebra, algebra, geometry and other critical math domains — and for career and college readiness.

The TouchMath Scope and Sequence can be used to chart the course for students in primary classrooms in general education, in intervention programs, and in IEPs for special education learners. The thorough analysis of skills makes it an easy tool for teachers to use to ensure the steps needed to learn mathematics. The various presentations of this tool provide options for teachers and administrators to determine the level of the content and approach that meets the needs of individual learners.



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Second Grade
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Upper Grades
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UNIT 1 Math Readiness Skills

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Counting	Concept Development	Concrete Representational	Engagement	P K 1 2 3 4 5 6 7 8
2 TouchPoints	Concept Development	Concrete Representational	Engagement	P K 1 2 3 4 5 6 7 8
3 Classifying	Concept Development	Concrete Representational	Engagement	P K 1 2 3 4 5 6 7 8
4 2-D Shapes	Concept Development	Concrete Representational	Engagement	P K 1 2 3 4 5 6 7 8
5 Graphs	Concept Development	Concrete Representational	Engagement	P K 1 2 3 4 5 6 7 8

Kindergarten

Standards Edition

UNIT 1 Numbers & Operations Level 1

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Representing 0–3	Subitizing	Representational	Representation	P K 1 2 3 4 5 6 7 8
2 Representing 4–5	Subitizing	Representational	Representation	P K 1 2 3 4 5 6 7 8
3 Comparing	Concept Development	Concrete	Representation	P K 1 2 3 4 5 6 7 8
4 Addition	Fluency	Concrete	Representation	P K 1 2 3 4 5 6 7 8
5 Subtraction	Fluency	Representational	Representation	P K 1 2 3 4 5 6 7 8
6 Addition & Subtraction	Concept Development	Abstract	Representation	P K 1 2 3 4 5 6 7 8

UNIT 2 Numbers & Operations Level 2

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Representing 6–7	Subitizing	Concrete	Representation	P K 1 2 3 4 5 6 7 8
2 Representing 8–9	Subitizing	Concrete	Representation	P K 1 2 3 4 5 6 7 8
3 Addition	Operations & Algebraic Thinking	Representational	Representation	P K 1 2 3 4 5 6 7 8
4 Subtraction	Operations & Algebraic Thinking	Representational	Representation	P K 1 2 3 4 5 6 7 8
5 Addition & Subtraction	Operations & Algebraic Thinking	Representational	Expression	P K 1 2 3 4 5 6 7 8
6 Composing & Decomposing Numbers	Concept Development	Abstract	Expression	P K 1 2 3 4 5 6 7 8

Kindergarten

Standards Edition

UNIT 3 Numbers & Operations Level 3

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Composing & Decomposing 10	Numbers & Ops. in Base Ten	Concrete	Representation	P K 1 2 3 4 5 6 7 8
2 Numbers 10–15	Numbers & Ops. in Base Ten	Concrete	Representation	P K 1 2 3 4 5 6 7 8
3 Numbers 10–16	Numbers & Ops. in Base Ten	Concrete	Representation	P K 1 2 3 4 5 6 7 8
4 Place Value	Operations & Algebraic Thinking	Representational	Representation	P K 1 2 3 4 5 6 7 8
5 Word Problems	Concept Development	Representational	Expression	P K 1 2 3 4 5 6 7 8
6 Counting	Numbers & Ops. in Base Ten	Abstract	Expression	P K 1 2 3 4 5 6 7 8

UNIT 4 Measurement, Geometry & Data

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Describing Objects	Measurement	Concrete	Expression	P K 1 2 3 4 5 6 7 8
2 Sorting & Classifying	Geometry	Representational	Engagement	P K 1 2 3 4 5 6 7 8
3 Data	Measurement & Data	Representational	Representation	P K 1 2 3 4 5 6 7 8
4 2-D Shapes	Geometry	Representational	Engagement	P K 1 2 3 4 5 6 7 8
5 3-D Shapes	Geometry	Representational	Engagement	P K 1 2 3 4 5 6 7 8
6 Shapes in the Environment	Geometry	Abstract	Engagement	P K 1 2 3 4 5 6 7 8

UNIT 1 Numbers & Operations Level 1

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Counting	Cardinality	Representational	Engagement	P K 1 2 3 4 5 6 7 8
2 TouchPoints	Skill Focus	Representational	Action	P K 1 2 3 4 5 6 7 8
3 Within 5	TouchPoint Mixed Operations	Representational	Action	P K 1 2 3 4 5 6 7 8
4 Addition within 9	TouchPoint Addition Operation	Representational	Action	P K 1 2 3 4 5 6 7 8
5 Subtraction within 9	TouchPoint Subtraction Operation	Abstract	Action	P K 1 2 3 4 5 6 7 8
6 Within 5	Concept Development	Abstract	Engagement	P K 1 2 3 4 5 6 7 8

UNIT 2 Numbers & Operations Level 2

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Place Value	Numbers in Base Ten	Representational	Representation	P K 1 2 3 4 5 6 7 8
2 Addition within 13	Operations & Algebraic Thinking	Representational	Representation	P K 1 2 3 4 5 6 7 8
3 Addition within 20	Operations & Algebraic Thinking	Representational	Engagement	P K 1 2 3 4 5 6 7 8
4 Backward Counting	Operations & Algebraic Thinking	Representational	Representation	P K 1 2 3 4 5 6 7 8
5 Subtraction within 20	Operations & Algebraic Thinking	Abstract	Action	P K 1 2 3 4 5 6 7 8
6 Within 20	Concept Development	Abstract	Engagement	P K 1 2 3 4 5 6 7 8

UNIT 3 Numbers & Operations Level 3

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Place Value	Numbers in Base Ten	Representational	Representation	P K 1 2 3 4 5 6 7 8
2 Addition within 100	Numbers in Base Ten	Representational	Action	P K 1 2 3 4 5 6 7 8
3 Mixed Addition	Operations & Algebraic Thinking	Representational	Representation	P K 1 2 3 4 5 6 7 8
4 Addition Strategies	Operations & Algebraic Thinking	Abstract	Engagement	P K 1 2 3 4 5 6 7 8
5 Subtraction within 100	Operations & Algebraic Thinking	Representational	Representation	P K 1 2 3 4 5 6 7 8
6 Subtraction Strategies	Operations & Algebraic Thinking	Abstract	Representation	P K 1 2 3 4 5 6 7 8
7 Within 100	Concept Development	Abstract	Representation	P K 1 2 3 4 5 6 7 8

UNIT 4 Measurement, Geometry & Data

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Time & Money	Skill Focus	Abstract	Action	P K 1 2 3 4 5 6 7 8
2 Length	Measurement	Representational	Engagement	P K 1 2 3 4 5 6 7 8
3 Data	Concept Development	Abstract	Representation	P K 1 2 3 4 5 6 7 8
4 2-D Shapes	Reason with Shapes & Their Attributes	Representational	Representation	P K 1 2 3 4 5 6 7 8
5 3-D Shapes	Reason with Shapes & Their Attributes	Representational	Representation	P K 1 2 3 4 5 6 7 8
6 Fractional Parts of Shapes	Reason with Shapes & Their Attributes	Abstract	Representation	P K 1 2 3 4 5 6 7 8

Second Grade

Standards Edition

UNIT 1 Addition & Subtraction Level 1

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Within 13	Fluency	Representational	Representation	P K 1 2 3 4 5 6 7 8
2 Within 20	Fluency	Representational	Action	P K 1 2 3 4 5 6 7 8
3 Within 50	Fluency	Representational	Action	P K 1 2 3 4 5 6 7 8
4 Addition with Regrouping	Procedural Understanding	Representational	Expression	P K 1 2 3 4 5 6 7 8
5 Subtraction with Regrouping	Conceptual Development	Abstract	Expression	P K 1 2 3 4 5 6 7 8
6 Mixed Regrouping	Conceptual Development	Abstract	Expression	P K 1 2 3 4 5 6 7 8

UNIT 2 Addition & Subtraction Level 2

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Place Value	Conceptual Development	Representational	Action	P K 1 2 3 4 5 6 7 8
2 Counting & Reading	Fluency	Representational	Expression	P K 1 2 3 4 5 6 7 8
3 Reading & Writing	Procedural Understanding	Abstract	Expression	P K 1 2 3 4 5 6 7 8
4 Addition within 100	Fluency	Abstract	Expression	P K 1 2 3 4 5 6 7 8
5 Subtraction within 100	Fluency	Representational	Representation	P K 1 2 3 4 5 6 7 8
6 Within 100	Fluency	Representational	Representation	P K 1 2 3 4 5 6 7 8

UNIT 3 Operations with Multi-Digit Numbers

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Multiples of 10 & 100	Fluency	Representational	Action	P K 1 2 3 4 5 6 7 8
2 Addition within 1,000	Procedural Understanding	Representational	Representation	P K 1 2 3 4 5 6 7 8
3 Subtraction within 1,000	Procedural Understanding	Representational	Representation	P K 1 2 3 4 5 6 7 8
4 Mixed Operations	Conceptual Development	Abstract	Expression	P K 1 2 3 4 5 6 7 8
5 Multiplication 1	Conceptual Development	Abstract	Expression	P K 1 2 3 4 5 6 7 8
6 Multiplication 2	Conceptual Development	Abstract	Expression	P K 1 2 3 4 5 6 7 8

UNIT 4 Measurement, Geometry & Data

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Time	Conceptual Development	Representational	Representation	P K 1 2 3 4 5 6 7 8
2 Money	Conceptual Development	Representational	Representation	P K 1 2 3 4 5 6 7 8
3 Data	Fluency	Representational	Representation	P K 1 2 3 4 5 6 7 8
4 Measurement	Procedural Understanding	Representational	Action	P K 1 2 3 4 5 6 7 8
5 Operations with Length	Conceptual Development	Abstract	Expression	P K 1 2 3 4 5 6 7 8
6 Geometry	Conceptual Development	Abstract	Expression	P K 1 2 3 4 5 6 7 8

UNIT 1 Addition & Subtraction Level 1

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Forward Counting	Fluency	Representational	Representation	P (K) 1 2 3 4 5 6 7 8
2 Addition	Fluency	Representational	Action	P (K) 1 2 3 4 5 6 7 8
3 Backward Counting	Procedural Understanding	Representational	Action	P (K) 1 2 3 4 5 6 7 8
4 Subtraction	Procedural Understanding	Representational	Expression	P (K) 1 2 3 4 5 6 7 8
5 Fact Families	Conceptual Development	Abstract	Expression	P K 1 2 3 4 5 6 7 8
6 Place Value	Conceptual Development	Abstract	Action	P K 1 2 3 4 5 6 7 8
7 Strategies	Conceptual Development	Representational	Representation	P K 1 2 3 4 5 6 7 8
8 Mixed Addition & Subtraction	Conceptual Development	Representational	Representation	P K 1 2 3 4 5 6 7 8

UNIT 2 Addition & Subtraction Level 2

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Counting to 1,000	Fluency	Representational	Representation	P K 1 2 3 4 5 6 7 8
2 Within 20	Fluency	Representational	Action	P K 1 2 3 4 5 6 7 8
3 Place Value	Procedural Understanding	Representational	Action	P K 1 2 3 4 5 6 7 8
4 Within 100	Procedural Understanding	Representational	Expression	P K 1 2 3 4 5 6 7 8
5 Strategies	Conceptual Development	Abstract	Expression	P K 1 2 3 4 5 6 7 8
6 Three-Digit Numbers	Conceptual Development	Abstract	Action	P K 1 2 3 4 5 6 7 8

UNIT 3 Skip Counting

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Skip Counting by 2	Procedural Understanding	Representational	Representation	P K 1 2 3 4 5 6 7 8
2 Skip Counting by 3	Procedural Understanding	Representational	Action	P K 1 2 3 4 5 6 7 8
3 Skip Counting by 4	Procedural Understanding	Representational	Action	P K 1 2 3 4 5 6 7 8
4 Skip Counting by 5	Procedural Understanding	Representational	Expression	P K 1 2 3 4 5 6 7 8
5 Skip Counting by 6	Procedural Understanding	Abstract	Expression	P K 1 2 3 4 5 6 7 8
6 Skip Counting by 7	Procedural Understanding	Abstract	Action	P K 1 2 3 4 5 6 7 8
7 Skip Counting by 8	Procedural Understanding	Abstract	Engagement	P K 1 2 3 4 5 6 7 8
8 Skip Counting by 9	Procedural Understanding	Abstract	Action	P K 1 2 3 4 5 6 7 8

UNIT 4 Multiplication & Division Level 1

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Skip Counting Review	Procedural Understanding	Abstract	Action	P K 1 2 3 4 5 6 7 8
2 Multiplication	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
3 Division	Procedural Understanding	Representational	Action	P K 1 2 3 4 5 6 7 8
4 Strategies	Conceptual Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
5 Multiples & Factors	Conceptual Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
6 Mixed Multiplication & Division	Application	Abstract	Representation	P K 1 2 3 4 5 6 7 8

UNIT 5 Multiplication & Division Level 2

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Multiplication by One Digit	Conceptual Understanding	Abstract	Action	P K 1 2 3 4 5 6 7 8
2 Division by One Digit	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
3 Multiplication Using the Algorithm	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
4 Division Using the Algorithm	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
5 Multiplication by Two Digits	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
6 Division by Two Digits	Application	Abstract	Representation	P K 1 2 3 4 5 6 7 8
7 Mixed Practice	Application	Abstract	Representation	P K 1 2 3 4 5 6 7 8

UNIT 6 Mixed Operations with Whole Numbers

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Relationships of Operations	Conceptual Understanding	Abstract	Action	P K 1 2 3 4 5 6 7 8
2 Two-Four Digits by One Digit	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
3 Two-Four Digits by Two Digits	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
4 Three-Four Digits by Three Digits	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
5 Four Digits	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
6 Mixed Practice with Operations	Application	Abstract	Representation	P K 1 2 3 4 5 6 7 8

UNIT 7 Fractions, Decimals & Percents Level 1

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Understanding Fractions	Conceptual Understanding	Concrete	Representation	P K 1 2 3 4 5 6 7 8
2 Application of Concepts	Conceptual Understanding	Abstract	Representation	P K 1 2 3 4 5 6 7 8
3 Inequalities	Application	Representational	Engagement	P K 1 2 3 4 5 6 7 8
4 Mixed Numbers	Application	Representational	Engagement	P K 1 2 3 4 5 6 7 8
5 Fractions Review	Conceptual Understanding	Abstract	Engagement	P K 1 2 3 4 5 6 7 8
6 Decimals	Procedural Understanding	Representational	Action	P K 1 2 3 4 5 6 7 8
7 Percents	Procedural Understanding	Representational	Action	P K 1 2 3 4 5 6 7 8
8 Relationships of Fractions, Decimals & Percents	Conceptual Understanding	Abstract	Representation	P K 1 2 3 4 5 6 7 8

UNIT 8 Fractions, Decimals & Percents Level 2

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Addition & Subtraction of Fractions	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
2 Multiplication & Division of Fractions	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
3 Addition & Subtraction of Decimals	Procedural Understanding	Representational	Engagement	P K 1 2 3 4 5 6 7 8
4 Multiplication & Division of Decimals	Procedural Understanding	Representational	Action/Expression	P K 1 2 3 4 5 6 7 8
5 Percents	Procedural Understanding	Representational	Action/Expression	P K 1 2 3 4 5 6 7 8
6 Mixed Practice	Conceptual Understanding	Abstract	Representation	P K 1 2 3 4 5 6 7 8
7 Application	Conceptual Understanding	Abstract	Representation	P K 1 2 3 4 5 6 7 8
8 Mixed Review	Conceptual Understanding	Abstract	Representation	P K 1 2 3 4 5 6 7 8

UNIT 9 Measurement, Geometry & Data

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 2-D Shapes	Conceptual Understanding	Representational	Representation	P K 1 2 3 4 5 6 7 8
2 Lines & Angles	Conceptual Understanding	Representational	Representation	P K 1 2 3 4 5 6 7 8
3 Classification of 2-D Figures	Conceptual Understanding	Representational	Representation	P K 1 2 3 4 5 6 7 8
4 Perimeter, Area & Volume	Conceptual Understanding	Representational	Representation	P K 1 2 3 4 5 6 7 8
5 Time, Money & Distance	Procedural Understanding	Abstract	Engagement	P K 1 2 3 4 5 6 7 8
6 Units of Measurement	Procedural Understanding	Abstract	Engagement	P K 1 2 3 4 5 6 7 8
7 Data Representation	Application	Abstract	Action	P K 1 2 3 4 5 6 7 8
8 Data Analysis	Application	Abstract	Action	P K 1 2 3 4 5 6 7 8

UNIT 10 Algebra

Module & Title	Classification	CRA	UDL	Grade Level Pacing & Connection
1 Operations & Equations	Procedural Understanding	Representational	Representation	P K 1 2 3 4 5 6 7 8
2 Ratios & Proportions	Conceptual Understanding	Abstract	Representation	P K 1 2 3 4 5 6 7 8
3 Rational Numbers	Conceptual Understanding	Abstract	Representation	P K 1 2 3 4 5 6 7 8
4 Expressions	Procedural Understanding	Abstract	Representation	P K 1 2 3 4 5 6 7 8
5 Variables	Conceptual Understanding	Abstract	Action/Expression	P K 1 2 3 4 5 6 7 8
6 Patterns & Structure	Application	Abstract	Engagement	P K 1 2 3 4 5 6 7 8
7 Geometry	Application	Representational	Engagement	P K 1 2 3 4 5 6 7 8