

TOUCHMATH[®]



ALIGNMENT TO 2019 KENTUCKY ACADEMIC STANDARDS MATHEMATICS

ALL GRADES

TouchMath[®] Kindergarten Standards Edition Program

TouchMath[®] First Grade Standards Edition Program

TouchMath[®] Second Grade Standards Edition Program

TouchMath[®] Upper Grades Standards Edition Program

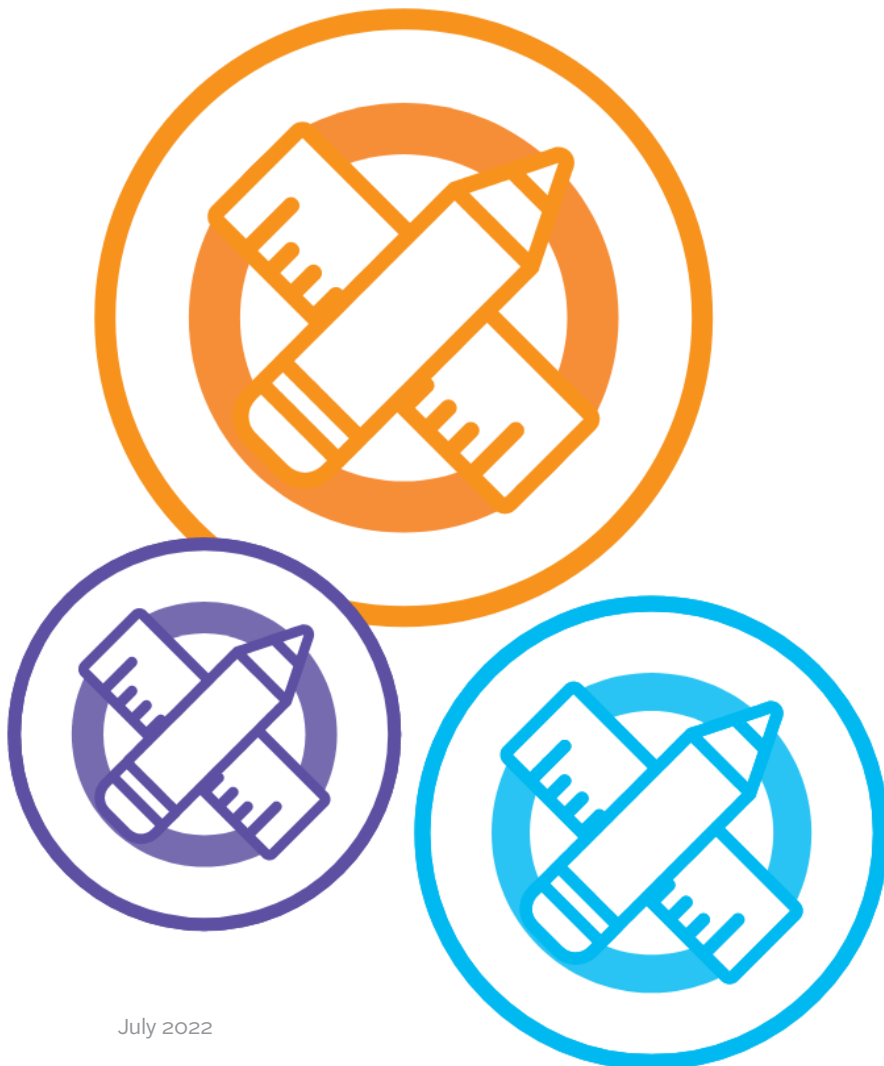
TouchMath offers added supplemental products to speed mastery –contact us for more information.

Call: **1-800-888-9191**

Visit: **touchmath.com**

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KINDERGARTEN

TouchMath[®] carefully scaffolds to build understanding in two key instruction areas in kindergarten: (1) representing, relating, and operating on whole numbers, initially with sets of objects; and (2) describing shapes and space.

TouchMath uses a patented, research-based C-R-A approach that moves from the Concrete (manipulatives) to the Representational (numerals and pictures) to the Abstract (word problems and mathematical reasoning). The Mathematical Practices are interwoven into the activities.

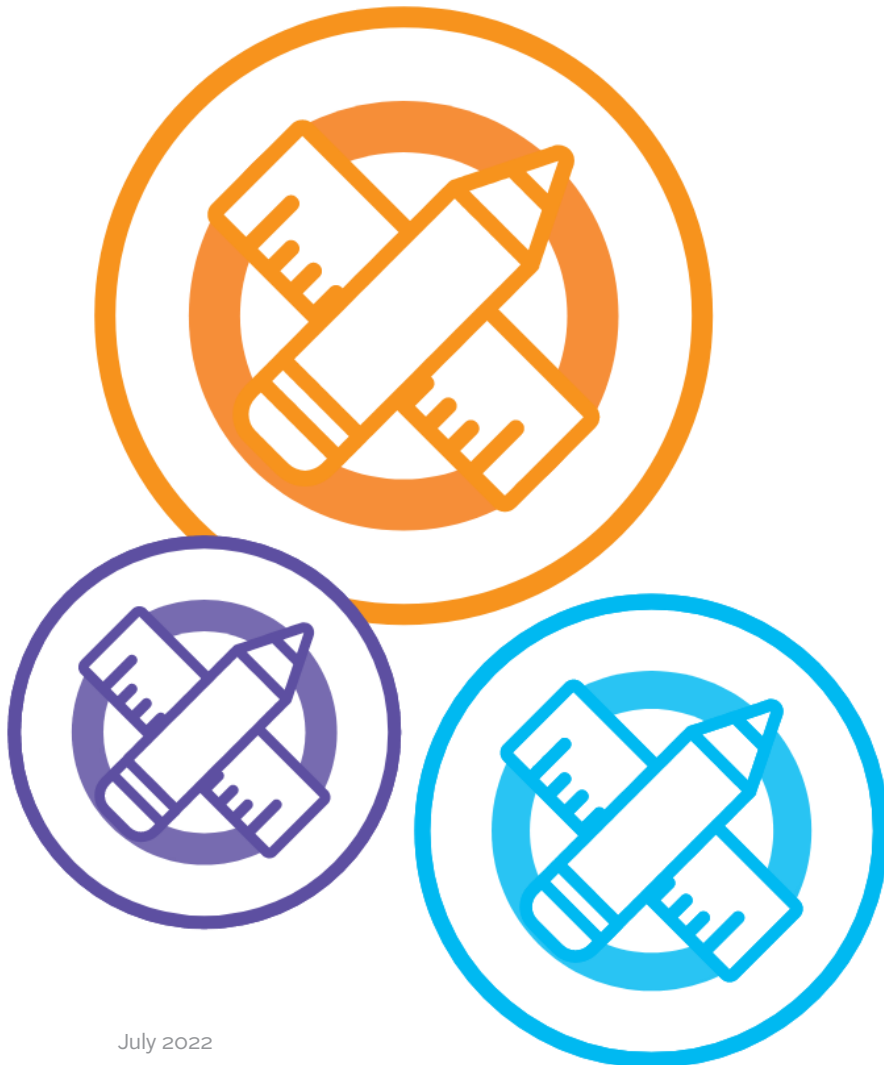
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Alignment to 2019 Kentucky Academic Standards | Mathematics | Kindergarten
 Referencing Units and Modules in the TouchMath® Kindergarten Standards Edition Program

TouchMath® Unit/Module	2019 Kentucky Academic Standards Kindergarten
Grade K Standards Edition Unit 1: Numbers Level 1	
1. Representing 0 – 3	KY.K.CC.1
2. Representing 4 – 5	KY.K.CC.1-2
3. Comparing	KY.K.CC.6-7
4. Addition	KY.K.OA.1-2
5. Subtraction	KY.K.OA.3-4
6. Addition and Subtraction	KY.K.OA.1-5

TouchMath® Unit/Module	2019 Kentucky Academic Standards Kindergarten
Grade K Standards Edition Unit 2: Numbers Level 2	
1. Representing 6 – 7	KY.K.CC.1
2. Representing 8 – 9	KY.K.CC.1
3. Addition	KY.K.OA.1-2
4. Subtraction	KY.K.OA.1-2; KY.K.CC.2
5. Addition and Subtraction	KY.K.OA.1-2
6. Composing and Decomposing Numbers	KY.K.OA.1-2

TouchMath® Unit/Module	2019 Kentucky Academic Standards Kindergarten
Grade K Standards Edition Unit 3: Numbers Level 3	
1. Composing and Decomposing 10	KY.K.NBT.1
2. Numbers 10 – 15	KY.K.OA.1
3. Numbers 16 – 20	KY.K.OA.2
4. Place Value	KY.K.NBT.1-2
5. Word Problems	KY.K.NBT.3; KY.K.OA.2
6. Counting	KY.K.CC.1-4

TouchMath® Unit/Module	2019 Kentucky Academic Standards Kindergarten
Grade K Standards Edition Unit 4: Numbers Level 4	
1. Describing Objects	KY.K.G.1
2. Sorting and Classifying	KY.K.G.2-3
3. Data	KY.K.MD.1
4. 2-D Shapes	KY.K.G.4
5. 3-D Shapes	KY.K.G.5
6. Shapes in the Environment	KY.K.G.6

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ALIGNMENT TO 2019 KENTUCKY ACADEMIC STANDARDS MATHEMATICS

FIRST GRADE

TouchMath[®] carefully scaffolds to build understanding in four key instruction areas in first grade: (1) strategies of addition and subtraction within 20; (2) whole number relationships and place value; (3) linear measurement; and (4) geometric concepts.

TouchMath uses a patented, research-based C-R-A approach that moves from the Concrete (manipulatives) to the Representational (numerals and pictures) to the Abstract (word problems and mathematical reasoning). The Mathematical Practices are interwoven into the activities.

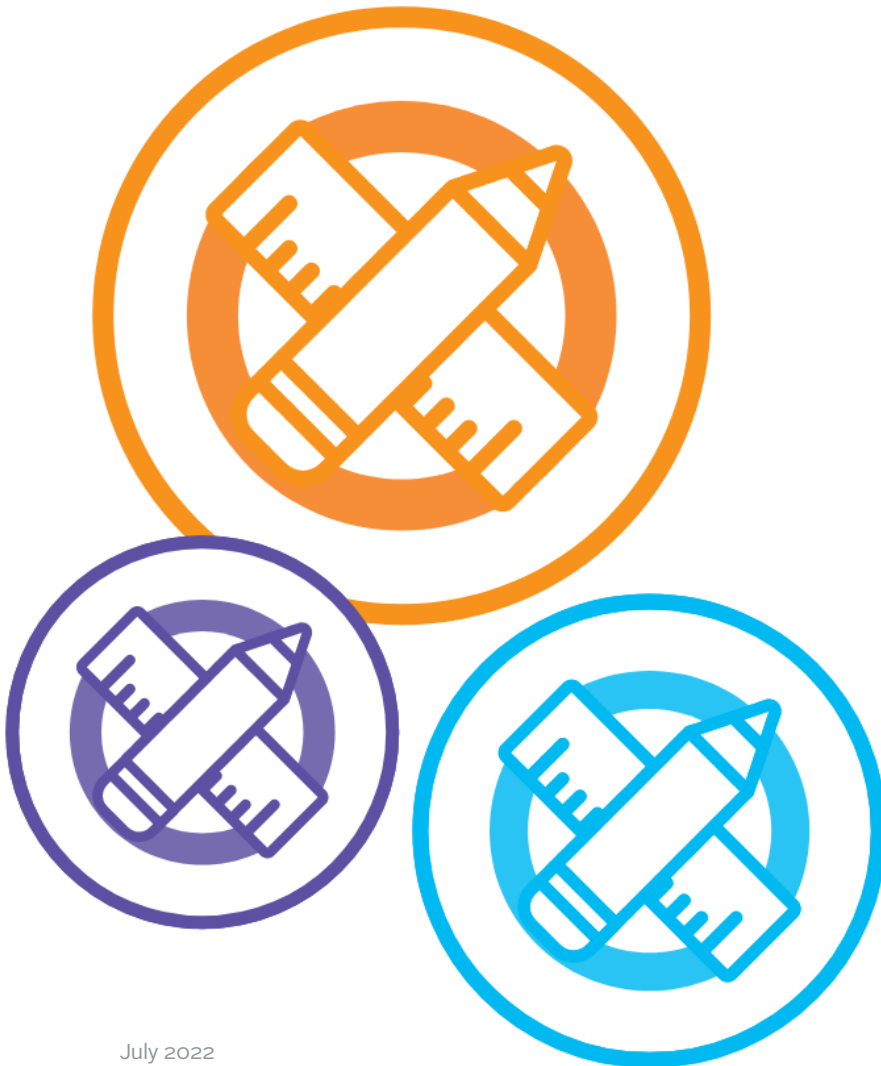
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Alignment to 2019 Kentucky Academic Standards | Mathematics | First Grade
 Referencing Activity Sheets in the TouchMath® First Grade Standards Edition Program

TouchMath® Unit/Module	2019 Kentucky Academic Standards First Grade
Grade 1 Standards Edition Unit 1: Numeracy Level 1	
1. Counting	KY.K.CC.1; KY.K.CC.2; KY.1.OA.1
2. TouchPoints	KY.K.CC.1; KY.K.CC.2; KY.K.OA.1; KY.1.OA.2
3. Within 5	KY.1.NBT.1
4. Addition within 9	KY.1.NBT.2; KY.1.OA.1
5. Subtraction within 9	KY.1.NBT.2; KY.1.OA.1
6. Within 9	KY.1.NBT.2; KY.1.OA.1; KY.K.CC.2

TouchMath® Unit/Module	2019 Kentucky Academic Standards First Grade
Grade 1 Standards Edition Unit 2: Numeracy Level 2	
1. Place Value	KY.1.NBT.1-3
2. Addition within 13	KY.1.NBT.2; KY.1.OA.1; KY.K.CC.2
3. Addition within 20	KY.1.NBT.2; KY.1.OA.1; KY.K.CC.2
4. Backward Counting	KY.1.NBT.2; KY.1.OA.1; KY.K.CC.2
5. Subtraction within 20	KY.1.NBT.1-2; KY.1.OA.1; KY.K.CC.2
6. Within 20	KY.1.NBT.1-2; KY.1.OA.1; KY.K.CC.2

TouchMath® Unit/Module	2019 Kentucky Academic Standards First Grade
Grade 1 Standards Edition Unit 3: Numeracy Level 3	
1. Place Value	KY.1.NBT.1-3
2. Addition within 100	KY.1.OA.1
3. Mixed Addition	KY.1.OA.1-2
4. Addition Strategies	KY.1.OA.4-5
5. Subtraction within 100	KY.1.NBT.4; KY.1.OA.2
6. Subtraction Strategies	KY.1.NBT.4; KY.1.OA.2
7. Within 100	KY.1.NBT.4; KY.1.OA.2

TouchMath® Unit/Module	2019 Kentucky Academic Standards First Grade
Grade 1 Standards Edition Unit 4: Measurement, Data and Geometry	
1. Time and Money	KY.1.MD.3
2. Length	KY.1.MD.1-2
3. Data	KY.1.MD.4
4. 2-D Shapes	KY.1.G.1-2
5. 3-D Shapes	KY.1.G.3
6. Fractional Parts of Shapes	KY.1.G.3

TOUCHMATH[®]



ALIGNMENT TO 2019 KENTUCKY ACADEMIC STANDARDS MATHEMATICS

SECOND GRADE

TouchMath[®] carefully scaffolds to build understanding in four key instruction areas in second grade: (1) extending understanding of base-ten notation; (2) building fluency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.

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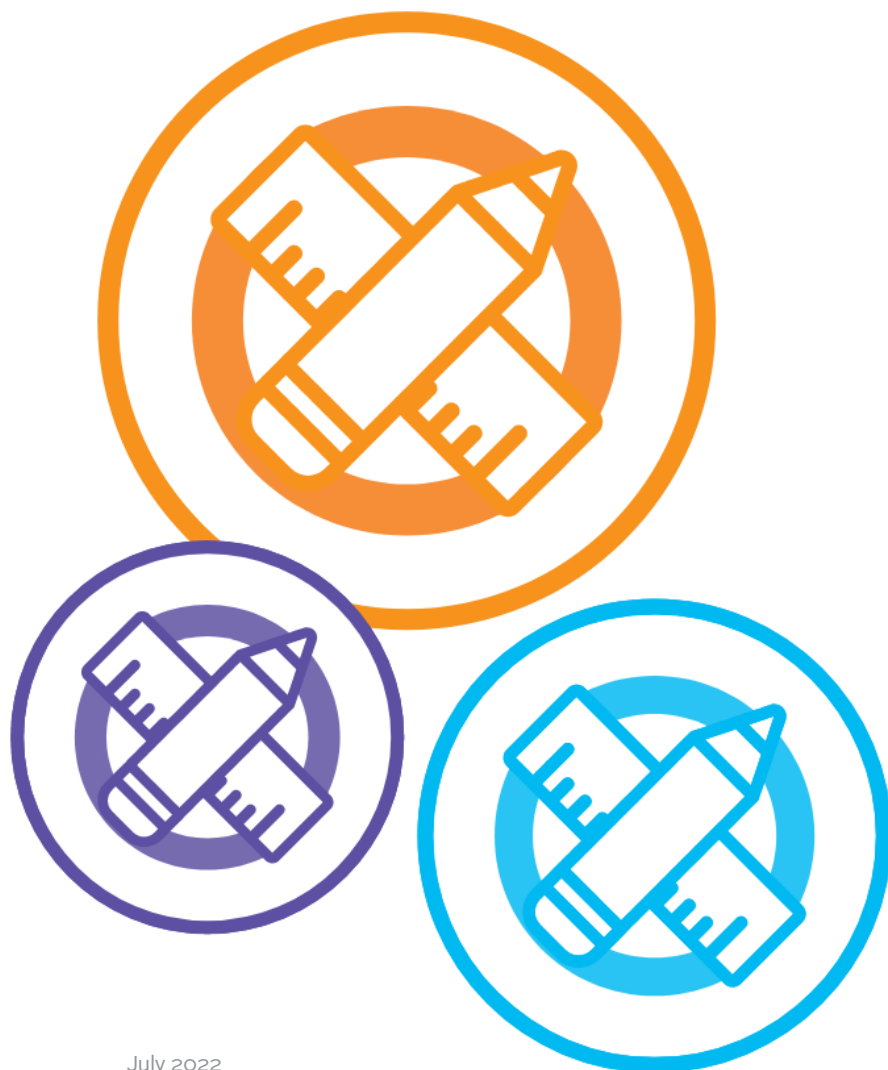
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Alignment to 2019 Kentucky Academic Standards | Mathematics | Second Grade
 Referencing Activity Sheets in the TouchMath® Second Grade Standards Edition Program

TouchMath® Unit/Module	2019 Kentucky Academic Standards Second Grade
Grade 2 Standards Edition Unit 1: Addition and Subtraction 1	
1. Within 13	KY.2.OA.1; KY.1.OA.1
2. Within 20	KY.2.OA.2; KY.1.OA.2
3. Within 50	KY.2.OA.1; KY.2.OA.4; KY.1.OA.1
4. Addition with Regrouping	KY.2.NBT.2; KY.2.NBT.5-7; KY.1.NBT.1
5. Subtraction with Regrouping	KY.2.NBT.2; KY.2.NBT.5-7; KY.1.NBT.1
6. Mixed Regrouping	KY.2.NBT.5-6; KY.2.OA.1; KY.2.OA.4; KY.1.OA.1

TouchMath® Unit/Module	2019 Kentucky Academic Standards Second Grade
Grade 2 Standards Edition Unit 2: Addition and Subtraction 2	
1. Place Value	KY.2.NBT.1-2
2. Counting and Reading	KY.2.NBT.3; KY.2.OA.2
3. Reading and Writing	KY.2.NBT.3-4; KY.2.OA.1-2
4. Addition within 100	KY.2.OA.1-3; KY.2.OA.4; KY.1.OA.1
5. Subtraction within 100	KY.2.OA.1-3; KY.2.OA.4; KY.1.OA.1
6. Within 100	KY.2.NBT.1-2; KY.2.OA.1-2

TouchMath® Unit/Module	2019 Kentucky Academic Standards Second Grade
Grade 2 Standards Edition Unit 3: Operations with Multi-Digit Numbers	
1. Multiples of 10 and 100	KY.3.NBT.3; KY.2.OA.1-2
2. Addition within 1,000	KY.2.OA.3-4; KY.2.NBT.1
3. Subtraction within 1,000	KY.2.OA.3-4; KY.2.NBT.1; KY.1.NBT.1
4. Mixed Operations	KY.3.NBT.3; KY.2.OA.1-2; KY.1.NBT.2
5. Multiplication 1	KY.2.OA.3
6. Multiplication 2	KY.2.OA.4

TouchMath® Unit/Module	2019 Kentucky Academic Standards Second Grade
Grade 2 Standards Edition Unit 4: Measurement, Data and Geometry	
1. Time	KY.2.MD.7
2. Money	KY.2.MD.8
3. Data	KY.2.MD.9
4. Measurements	KY.2.MD.10
5. Operations with Length	KY.2.MD.5-6
6. Multiplication 2	KY.2.OA.4

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UPPER GRADES

TouchMath® Upper Grades includes 10 topic-based Units covering K-6 standards. Each Unit provides support for individual learning by presenting information in multiple ways and by ensuring students have the appropriate amount of meaningful repetition to master the skills. Both the content and the activities are scaffolded with small steps to ensure students understand and apply relationships to each skill.

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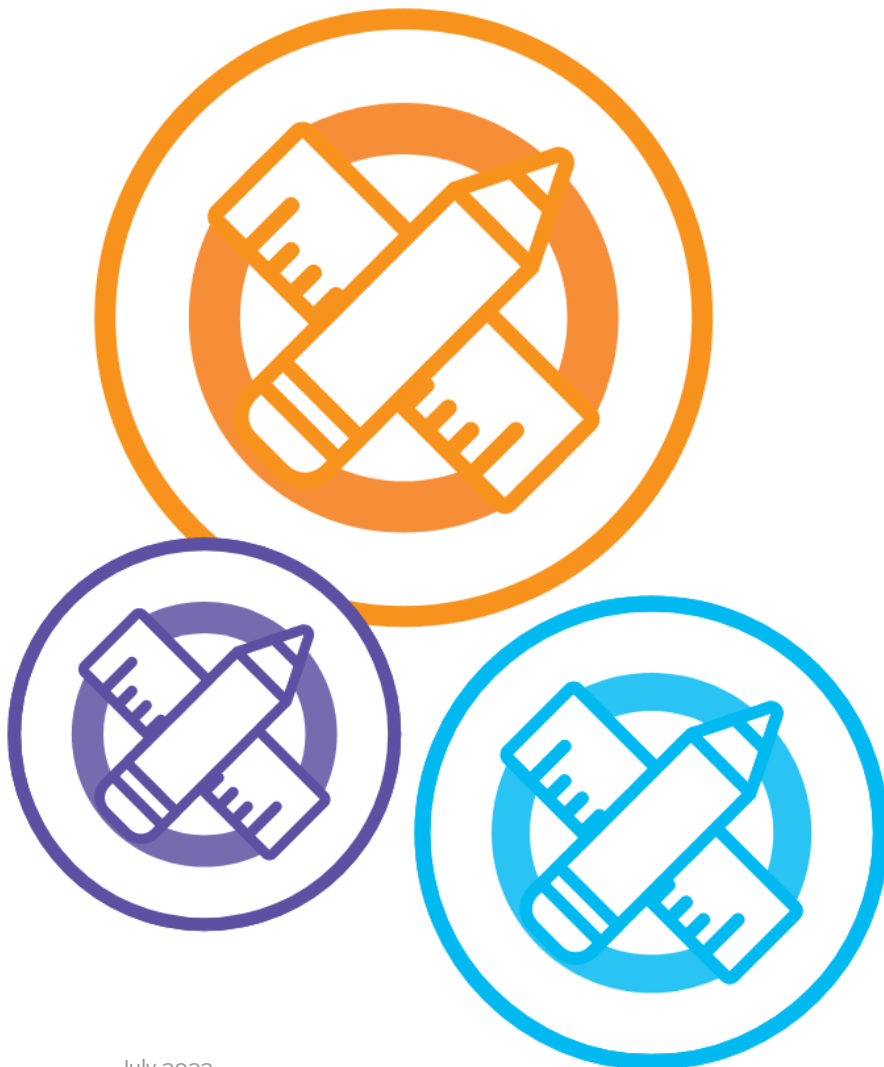
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Alignment to 2019 Kentucky Academic Standards | Mathematics | Upper Grades
 Referencing Activity Sheets in the TouchMath® Upper Grades Standards Edition Program

TouchMath® Unit/Module	2019 Kentucky Academic Standards Upper Grades
Upper Grades Standards Edition Unit 1: Addition and Subtraction Level 1	
1. Forward Counting	KY.K.CC.4; KY.K.CC.5-6; KY.1.NBT.1-2
2. Addition	KY.K.NBT.1; KY.1.OA.1; KY.2.OA.2; KY.1.NBT.3; KY.2.NBT.1
3. Backward Counting	KY.K.CC.4; KY.K.CC.5-6; KY.1.NBT.1-2
4. Subtraction	KY.K.NBT.1; KY.1.OA.1; KY.2.OA.2; KY.1.NBT.3; KY.2.NBT.1
5. Fact Families	KY.1.OA.6-8; KY.2.OA.1; KY.3.OA.5
6. Place Value	KY.1.NBT.1; KY.2.NBT.1; KY.3.NBT.1; KY.4.NBT.1-2
7. Strategies	KY.1.OA.6-8; KY.2.OA.1; KY.3.OA.5
8. Mixed Addition and Subtraction	KY.K.CC.4; KY.K.CC.5-6; KY.1.NBT.1-2; KY.1.NBT.1; KY.2.NBT.1; KY.3.NBT.1; KY.4.NBT.1-2

TouchMath® Unit/Module	2019 Kentucky Academic Standards Upper Grades
Upper Grades Standards Edition Unit 2: Addition and Subtraction Level 2	
1. Counting by 1,000	KY.1.NBT.1; KY.2.NBT.1; KY.3.NBT.1
2. Within 20	KY.1.NBT.1; KY.K.OA.1
3. Place Value	KY.1.NBT.1; KY.2.NBT.1; KY.3.NBT.1
4. Within 100	KY.1.NBT.2; KY.K.NBT.1
5. Strategies	KY.1.NBT.1; KY.2.NBT.1; KY.3.NBT.1
6. Three-Digit Numbers	KY.2.NBT.4; KY.2.NBT.7

TouchMath® Unit/Module	2019 Kentucky Academic Standards Upper Grades
Upper Grades Standards Edition Unit 3: Skip Counting	
1. Skip Counting by 2	KY.2.OA.2; KY.2.NBT.A.3
2. Skip Counting by 3	KY.2.OA.2; KY.2.NBT.A.3
3. Skip Counting by 4	KY.2.OA.2; KY.2.NBT.A.3
4. Skip Counting by 5	KY.2.OA.2; KY.2.NBT.A.3
5. Skip Counting by 6	KY.2.OA.2; KY.2.NBT.A.3
6. Skip Counting by 7	KY.2.OA.2; KY.2.NBT.A.3
7. Skip Counting by 8	KY.2.OA.2; KY.2.NBT.A.3
8. Skip Counting by 9	KY.2.OA.2; KY.2.NBT.A.3

TouchMath® Unit/Module	2019 Kentucky Academic Standards Upper Grades
Upper Grades Standards Edition Unit 4: Multiplication and Division Level 1	
1. Skip Counting Review	KY.3.OA.1-4
2. Multiplication	KY.3.OA.1-4; KY.4.OA.1-2; KY.5.OA.1
3. Divisions	KY.3.OA.1-4; KY.4.OA.1-4; KY.5.OA.1
4. Strategies	KY.3.OA.1-4; KY.4.OA.1-3; KY.5.OA.1-2
5. Multiples and Factors	KY.4.OA.4; KY.6.NS.2-4
6. Mixed Multiplication and Division	KY.3.OA.1-4; KY.4.OA.1-2; KY.5.OA.1; KY.4.OA.4; KY.6.NS.2-4

TouchMath® Unit/Module	2019 Kentucky Academic Standards Upper Grades
Upper Grades Standards Edition Unit 5: Multiplication and Division Level 2	
1. Multiplication by One Digit	KY.3.OA.1-4; KY.4.OA.1
2. Division by One Digit	KY.3.OA.7; KY.4.OA.5
3. Multiplication using the Algorithm	KY.3.OA.1-4; KY.4.OA.1-4; KY.5.OA.1-4; KY.6.EE.4
4. Division using the Algorithm	KY.3.OA.1-4; KY.4.OA.1-4; KY.5.OA.1-4; KY.6.EE.4
5. Multiplication by Two Digits	KY.3.OA.2; KY.4.OA.2; KY.5.OA.2-3; KY.5.EE.2
6. Division by Two Digits	KY.3.OA.2; KY.4.OA.2; KY.5.OA.2-3; KY.5.EE.2
7. Mixed Practice	KY.3.OA.1-4; KY.4.OA.1-4; KY.5.OA.1-4; KY.6.EE.4

TouchMath® Unit/Module	2019 Kentucky Academic Standards Upper Grades
Upper Grades Standards Edition Unit 6: Mixed Operation with Whole Numbers	
1. Relationship of Operations	KY.2.NBT.1; KY.3.NBT.1-3; KY.4.NBT.1; KY.5.NBT.1-2
2. Two-Four Digits by One Digit	KY.2.NBT.6; KY.4.NBT.5
3. Two-Four Digits by Two Digits	KY.4.NBT.4; KY.5.NBT.6
4. Three-Four Digits by Three Digits	KY.2.NBT.4; KY.3.NBT.3; KY.4.NBT.1; KY.5.NBT.4
5. Four Digits	KY.4.NBT.6; KY.5.NBT.6; KY.6.EE.1
6. Mixed Practice with Operations	KY.2.NBT.1; KY.3.NBT.1-3; KY.4.NBT.1; KY.5.NBT.1-2; KY.4.NBT.6; KY.5.NBT.6; KY.6.EE.1; KY.2.NBT.4; KY.3.NBT.3; KY.4.NBT.1; KY.5.NBT.4

TouchMath® Unit/Module	2019 Kentucky Academic Standards Upper Grades
Upper Grades Standards Edition Unit 7: Fractions, Decimals, and Percents Level 1	
1. Fraction Concepts	KY.3.NF.1-2a-b; KY.4.NF.3b; KY.5.NF.1
2. Application of Concepts	KY.3.NF.3a-d; KY.4.NF.3a; KY.5.NF.1
3. Inequalities	KY.6.EE.8; KY.7.EE.4
4. Mixed Numbers	KY.4.NF.3c
5. Fractions Review	KY.3.NF.1-2a-b; KY.3.NF.3a-d; KY.4.NF.3b; KY.5.NF.1
6. Decimals	KY.4.NF.7; KY.4.MD.2; KY.5.NBT.3a-b; KY.5.NBT.4; KY.5.NBT.7; KY.6.NS.3
7. Percents	KY.6.RP.3c
8. Relationships of Fractions, Decimals, and Percents	KY.4.NF.7; KY.4.MD.2; KY.5.NBT.3a-b; KY.5.NBT.4; KY.5.NBT.7; KY.6.NS.3; KY.3.NF.1-2a-b; KY.3.NF.3a-d; KY.4.NF.3b; KY.5.NF.1; KY.3.NF.3a-d; KY.4.NF.3a; KY.5.NF.1

TouchMath® Unit/Module	2019 Kentucky Academic Standards Upper Grades
Upper Grades Standards Edition Unit 8: Fractions, Decimals, and Percents Level 2	
1. Addition & Subtraction Fractions	KY.5.NF.1-2; KY.4.NF.3a-d; KY.4.NF.4a-c; KY.3.NF.1
2. Multiplication & Division Fractions	KY.7.NS.1; KY.6.NS.2-3; KY.5.NF.3; KY.5.NF.KY.4.a-c
3. Addition & Subtraction Decimals	KY.6.NS.3; KY.5.NBT.7; KY.5.NBT.3a-b; KY.4.NF.7; KY.4.MD.2
4. Multiplication & Division Decimals	KY.7.NS.1; KY.6.NS.1 and 3; KY.5.NBT.4
5. Percents	KY.7.RP.3; KY.6.RP.3c
6. Mixed Practice	KY.7.RP.3; KY.6.RP.3c; KY.6.NS.3; KY.5.NBT.7; KY.5.NBT.3a-b; KY.4.NF.7; KY.4.MD.2
7. Application	KY.7.NS.1; KY.6.NS.1 and 3; KY.5.NBT.4; KY.4.MD.2
8. Mixed Review	KY.7.NS.1; KY.6.NS.1 and 3; KY.5.NBT.4; KY.4.MD.2 KY.6.NS.3; KY.5.NBT.7; KY.5.NBT.3a-b; KY.4.NF.7; KY.4.MD.2

TouchMath® Unit/Module	2019 Kentucky Academic Standards Upper Grades
Upper Grades Standards Edition Unit 9: Geometry	
1. 2-D Shapes	KY.6.G.1-4; KY.5.G.3; KY.4.G.1
2. Lines and Angles	KY.7.G.2; KY.6.G.2-3
3. Classification of 2-D Figures	KY.5.G.3-4; KY.4.G.1; KY.3.G.1-2
4. Perimeters, Area, and Volume	KY.7.G.4-6; KY.6.G.3; KY.5.NBT.6; KY.4.MD.3; KY.3.G.2
5. Time, Money, and Distance	KY.1.MD.3-6; KY.2.MD.7-8; KY.4.MD.2; KY.6.EE.1
6. Units of Measure	KY.1.MD.1; KY.2.MD.1-4; KY.3.MD.1-2; KY.4.MD.1; KY.5.MD.1-3
7. Data Representation	KY.2.MD.9-10; KY.3.MD.1; KY.5.MD.2; KY.6.SP.1-3
8. Data Analysis	KY.6.SP.4; KY.6.SP.KY.5.a-d; KY.7.SP.2; KY.7.SP.3-4

TouchMath® Unit/Module	2019 Kentucky Academic Standards Upper Grades
Upper Grades Standards Edition Unit 10: Algebra	
1. Operations & Equations	KY.6.RP.1; KY.6.EE.1-4; KY.5.OA.1; KY.5.OA.3-5; KY.4.OA.KY.1.2
2. Ratio & Proportions	8.RP.1; KY.7.RP.1-2; KY.6.RP.1-2; KY.6.RP.3b-c
3. Rational Numbers	KY.7.EE.4a; KY.7.EE.4b; KY.6.EE.3; KY.6.EE.5
4. Expressions	8.EE.1; KY.7.EE.1-3; KY.6.EE.1-4
5. Variables	KY.7.EE.4; KY.6.EE.5; KY.5.OA.1; KY.5.OA.2
6. Patterns & Structure	KY.7.EE.2; KY.6.EE.1-2
7. Geometry	KY.7.G.1-5; KY.6.G.1-5, KY.5.G.3-4