

**Madison Public Schools
Grade 3 Marking Period Mathematics Benchmarks**

Operations and Algebraic Thinking	MP#1	MP#2	MP#3
Demonstrates fluency and accuracy with multiplication and division math facts	<ul style="list-style-type: none"> Multiplies one-digit numbers by 2, 3, 4, 5, and 10 (consistently recalls one fact in 3 seconds) 	<ul style="list-style-type: none"> Multiplies within 100 (consistently recalls one fact in 3 seconds) 	<ul style="list-style-type: none"> Fluently multiplies and divides within 100 (consistently recalls one fact in 3 seconds)
Solves word problems involving the four operations	<ul style="list-style-type: none"> Solves word problems involving addition and subtraction 	<ul style="list-style-type: none"> Solves word problems involving operations presented 	<ul style="list-style-type: none"> Accurately solves two-step word problems involving all four operations
Numbers and Operations Base Ten	MP#1	MP#2	MP#3
Uses place value understanding and properties to perform multi-digit arithmetic	<ul style="list-style-type: none"> Adds, subtracts, and rounds numbers within 1000 	<ul style="list-style-type: none"> Fluently adds, subtracts, and rounds numbers within 1000 	<ul style="list-style-type: none"> Fluently adds, subtracts, and multiplies numbers within 1000 (one digit numbers by multiples of 10 with a range 10-90)
Numbers and Operations - Fractions	MP#1	MP#2	MP#3
Represents and explains fractions on a number line	Skills not assessed at this time	<ul style="list-style-type: none"> Plots fractions on a number line using equal intervals 	<ul style="list-style-type: none"> Accurately plots fractions on a number line using equal intervals Explains placement of fractions

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Explains and compares fractions and their equivalents	Skills not assessed at this time	<ul style="list-style-type: none"> • Expresses and compares equivalent fractions 	<ul style="list-style-type: none"> • Accurately expresses, compares, and generates equivalent fractions
Measurement and Data	MP#1	MP#2	MP#3
Reads, writes and solves problems involving time	Skills not assessed at this time	Skills not assessed at this time	<ul style="list-style-type: none"> • Accurately reads and writes time to the minute and solves problems involving elapsed time
Solves problems using metric measure involving liquid volume and mass	Skills not assessed at this time	<ul style="list-style-type: none"> • Measures, estimates and solves problems in metric units involving liquid volume and mass 	<ul style="list-style-type: none"> • Accurately measures, estimates and solves problems in metric units involving liquid volume and mass
Represents and interprets data using graphs and line plots	Skills not assessed at this time	<ul style="list-style-type: none"> • Generates and interprets data on line plots, picture graphs and bar graphs 	<ul style="list-style-type: none"> • Accurately generates and interprets data on line plots, picture graphs and bar graphs
Understands concepts of perimeter and area	Skills not assessed at this time	<ul style="list-style-type: none"> • Measures and compares areas and perimeters using addition and multiplication 	<ul style="list-style-type: none"> • Accurately measures and compares areas and perimeters using addition and multiplication
Geometry	MP#1	MP#2	MP#3
Categorizes shapes by their attributes	Skills not assessed at this time	<ul style="list-style-type: none"> • Describes, compares, and classifies shapes into multiple categories (ex. trapezoid = quadrilateral) 	<ul style="list-style-type: none"> • Accurately describes, compares, and classifies shapes into multiple categories (ex. trapezoid = quadrilateral)