

**Park Ridge Public Schools
Mathematics Report Card Rubric
Fourth Grade**

1) Understands and applies mathematical concepts

Trimester	1	2	3	ES
1 st	Rarely or never meets the expectations for this trimester	Inconsistently meets the expectations for this trimester	<p>Consistently demonstrates an understanding of the following concepts:</p> <p><u>Unit 1: Number and Operations in Base Tens</u></p> <ul style="list-style-type: none"> • Multi-digit whole numbers • Base ten numeration system: one digit in one place represents ten times what is represented in the place to its right • Number names: expanded form • Comparisons between numbers: greater than, less than, equals to • Place value • Properties of operations • Multi-digit arithmetic • Fluently add and subtract multi-digit numbers • Algorithm of addition and subtraction • Place-value strategies • Properties of Operations • Calculation representations using equations, rectangular arrays, and or area models • Multiplication of whole numbers • Whole-number quotients • Remainders • Four-digit dividends • One-digit divisors • Strategies based on place value, the properties of operations, and the relationship between multiplication and division 	Independently and consistently exceeds standards for this trimester
2 nd	Rarely or never meets the expectations	Inconsistently	<p>Consistently demonstrates an understanding of the following concepts:</p> <p><u>Unit 2: Operations and Algebraic Thinking</u></p> <ul style="list-style-type: none"> • Multi-step word problems with whole numbers • Equations 	Independently and consistently exceeds standards for this trimester

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	for this trimester	meets the expectations for this trimester	<ul style="list-style-type: none"> • Variables • Mental computation • Rounding and estimation • Multiplication comparisons • Multiplication equations • Solving word problems using division • Drawings and equations use symbols for unknown numbers • Working with variables in a table: rules and written expressions • Representing a variable in an algebraic expression: using addition, subtraction, multiplication, and division • Representing objects in problems • Using basic facts and patterns of zeros to solve division problems with three-digit dividends and one-digit divisors • Estimating quotients using compatible numbers and rounding • Quotients with remainders • Factoring whole numbers • Prime and composite numbers • Finding the hidden question in a multi-step problem and stating the answer to the original problem <p><u>Unit 3: Number and Operations - Fractions</u></p> <ul style="list-style-type: none"> • Using fractions to identify parts of a whole • Using fractions to represent regions and sets • Estimating fraction parts • Equivalent fraction models • Mixed numbers and improper fractions • Comparing fractions with benchmark fractions • Using common denominators to compare fractions • Word problems require explanations: written and illustrated solutions • Adding and subtracting fractions • Fractions with like denominators need only add/subtract the numerator • Representing decimals in three different ways • Comparing and ordering decimals • Relating fractions and decimals 	
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			<ul style="list-style-type: none"> • Representing fractions and decimals on a number line • Solving mathematical problems using pictures 	
3 rd	Rarely or never meets the expectations for this trimester	Inconsistently meets the expectations for this trimester	<p>Consistently demonstrates an understanding of the following concepts:</p> <p><u>Unit 4: Measurement and Data</u></p> <ul style="list-style-type: none"> • Angle measurement and illustration • Describing angles by their type and measurement • Fraction calculations • Problem-Solving - "Draw a picture strategy", make a table, work backwards • Area of regular polygons • Area of rectangles and squares • Area of irregular shapes • Perimeter of a polygon • Relationship between perimeter and area of rectangles • Volume of a solid • Units of length • Units of capacity • Units of weight • Conversion of customary units • Units of mass • Conversion of metric units • Elapsed Time • Line Plots • Equation Solutions <p><u>Unit 5: Geometry</u></p> <ul style="list-style-type: none"> • Points, lines, and planes • Lines and angles: geometric terms • Types of triangles • Plane shape symmetry 	Independently and consistently exceeds standards for this trimester

2) Recalls math facts with accuracy and automaticity

Trimester	1	2	3	ES
All	Rarely or never meets	Inconsistently meets the	Consistently demonstrates accurate application of grade-level math facts with automaticity	Independently and consistently

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	the expectations for this trimester	expectations for this trimester		exceeds standards for this trimester
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3) Applies problem-solving strategies to solve word problems accurately

Trimester	1	2	3	ES
All	Rarely or never meets the expectations for this trimester	Inconsistently meets the expectations for this trimester	Consistently demonstrates use of reasonable strategies in finding solutions and justifies choices when posed with real-world problems	Independently and consistently exceeds standards for this trimester

4) Computes accurately

Trimester	1	2	3	ES
All	Rarely or never meets the expectations for this trimester	Inconsistently meets the expectations for this trimester	Consistently identifies appropriate operation and mathematically computes the correct answer	Independently and consistently exceeds standards for this trimester

5) Effectively communicates mathematical thinking in written and oral form

Trimester	1	2	3	ES
All	Rarely or never meets the expectations for this trimester	Inconsistently meets the expectations for this trimester	Consistently communicates mathematical thinking and accurately explains strategies utilized orally and in writing	Independently and consistently exceeds standards for this trimester