

### Math and Science Grade 4 Progress Report Rubric

Mathematics	December	March	June
<b>Adds, subtracts, multiplies and divides with automaticity</b>	<b>M:</b> Students will add and subtract within 20, and multiply and divide within 100, completing between 13-21 problems a minute.	<b>M:</b> Students will add and subtract within 20, and multiply and divide within 100, completing between 18-27 problems a minute.	<b>M:</b> Students will add and subtract within 20, and multiply and divide within 100, completing between 21-30 problems a minute.
	<b>P:</b> Students will add and subtract within 20, and multiply and divide within 100, completing between 10-13 problems a minute.	<b>P:</b> Students will add and subtract within 20, and multiply and divide within 100, completing between 14-17 problems a minute.	<b>P:</b> Students will add and subtract within 20, and multiply and divide within 100, completing between 16-20 problems a minute.
<b>Generalizes place value understanding with multi-digit whole numbers</b>	<b>M:</b> Students will consistently use place value understanding to round whole numbers up to 1,000,000. Students will consistently read and write numbers to 1,000,000 in standard, word and expanded form. Students will read, write and compare multi-digit numbers using $<$ , $>$ , $=$ . Students will use understanding of place value to estimate solutions to problems.	<b>M:</b> Students will consistently use place value understanding to round whole numbers up to 1,000,000. Students will consistently read and write numbers to 1,000,000 in standard, word and expanded form. Students will consistently read, write and compare multi-digit numbers using $<$ , $>$ , $=$ . Students will use understanding of place value to estimate solutions to problems.	<b>M:</b> Students will consistently use place value understanding to round whole numbers up to 1,000,000. Students will consistently read and write numbers to 1,000,000 in standard, word and expanded form. Students will consistently read, write and compare multi-digit numbers using $<$ , $>$ , $=$ . Students will use understanding of place value to estimate solutions to problems.
	<b>P:</b> Students will inconsistently use place value understanding to round whole numbers up to 1,000,000. Students will inconsistently read and write numbers to 1,000,000 in standard, word and expanded form. Students will inconsistently read, write and compare multi-digit numbers using $<$ , $>$ , $=$ . Students will inconsistently use understanding of place value to estimate solutions to problems.	<b>P:</b> Students will inconsistently use place value understanding to round whole numbers up to 1,000,000. Students will inconsistently read and write numbers to 1,000,000 in standard, word and expanded form. Students will inconsistently read, write and compare multi-digit numbers using $<$ , $>$ , $=$ . Students will inconsistently use understanding of place value to estimate solutions to problems.	<b>P:</b> Students will inconsistently use place value understanding to round whole numbers up to 1,000,000. Students will inconsistently read and write numbers to 1,000,000 in standard, word and expanded form. Students will inconsistently read, write and compare multi-digit numbers using $<$ , $>$ , $=$ . Students will inconsistently use understanding of place value to estimate solutions to problems.
<b>Uses place value and properties of operations to perform multi-digit computation</b>	<b>M:</b> Students will consistently add, subtract, multiply and divide using a variety of strategies including properties of operations. Students will consistently solve multi-step word problems using the four operations.	<b>M:</b> Students will consistently add, subtract, multiply and divide using a variety of strategies including properties of operations. Students will consistently solve multi-step word problems using the four operations.	<b>M:</b> Students will consistently add, subtract, multiply and divide using a variety of strategies including properties of operations. Students will consistently solve multi-step word problems using the four operations.
	<b>P:</b> Students will inconsistently add, subtract, multiply and divide using a variety of strategies including properties of operations. Students will inconsistently solve multi-step word problems using the four operations.	<b>P:</b> Students will inconsistently add, subtract, multiply and divide using a variety of strategies including properties of operations. Students will inconsistently solve multi-step word problems using the four operations.	<b>P:</b> Students will inconsistently add, subtract, multiply and divide using a variety of strategies including properties of operations. Students will inconsistently solve multi-step word problems using the four operations.
<b>Creates, compares and computes with fractions</b>	N/A	<b>M:</b> Students will consistently recognize and generate equivalent fractions, compare fractions, compose and decompose fractions and multiply fractions by whole numbers.	<b>M:</b> Students will consistently recognize and generate equivalent fractions, compare fractions, compose and decompose fractions and multiply fractions by whole numbers.
		<b>P:</b> Students will inconsistently recognize and generate equivalent fractions, compare fractions, compose and decompose fractions and multiply fractions by whole numbers.	<b>P:</b> Students will inconsistently recognize and generate equivalent fractions, compare fractions, compose and decompose fractions and multiply fractions by whole numbers.
<b>Solves problems using measurement</b>	N/A	N/A	<b>M:</b> Students will consistently relate sizes of metric and customary measurements within a given system. Students will consistently use four operations to solve word problems involving measurement and measurement

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			<p>conversions from larger to smaller units. Students will accurately measure rotations and draw angles in degrees using a protractor.</p> <p><b>P:</b> Students will inconsistently relate sizes of metric and customary measurements within a given system. Students will inconsistently use four operations to solve word problems involving measurement and measurement conversions from larger to smaller units. Students will inconsistently measure rotations and draw angles in degrees using a protractor.</p>
<b>Classify shapes by attributes</b>	N/A	<b>M:</b> Students will consistently draw, identify and measure lines and angles.	<b>M:</b> Students will consistently draw, identify, and measure lines and angles. Students will consistently classify shapes by properties of their lines and angles.
		<b>P:</b> Students will inconsistently draw, identify, and measure lines and angles.	<b>P:</b> Students will inconsistently draw, identify, and measure lines and angles. Students will inconsistently classify shapes by properties of their lines and angles.
<b>Constructs viable arguments and justifies reasoning within problem solving</b>	<b>M:</b> Students will consistently defend their reasoning using models to relate a strategy to a written method and explain why their solutions are accurate. Students will consistently estimate to determine reasonableness of answers. Students will consistently question the reasoning of others.	<b>M:</b> Students will consistently defend their reasoning using models to relate a strategy to a written method and explain why their solutions are accurate. Students will consistently estimate to determine reasonableness of answers. Students will consistently question the reasoning of others.	<b>M:</b> Students will consistently defend their reasoning using models to relate a strategy to a written method and explain why their solutions are accurate. Students will consistently estimate to determine reasonableness of answers. Students will consistently question the reasoning of others.
		<b>P:</b> Students will inconsistently defend their reasoning using models to relate a strategy to a written method and explain why their solutions are accurate. Students will inconsistently estimate to determine reasonableness of answers. Students will inconsistently question the reasoning of others.	<b>P:</b> Students will inconsistently defend their reasoning using models to relate a strategy to a written method and explain why their solutions are accurate. Students will inconsistently estimate to determine reasonableness of answers. Students will inconsistently question the reasoning of others.
<b>Effort</b>	<b>M:</b> Students will consistently work independently and collaboratively with minimal assistance. Students will consistently attend to precision.	<b>M:</b> Students will consistently work independently and collaboratively with minimal assistance. Students will consistently attend to precision.	<b>M:</b> Students will consistently work independently and collaboratively with minimal assistance. Students will consistently attend to precision.
		<b>P:</b> Students will inconsistently work independently and collaboratively with assistance. Students will inconsistently attend to precision.	<b>P:</b> Students will inconsistently work independently and collaboratively with assistance. Students will inconsistently attend to precision.

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Science	December	March	June
<b>Understands scientific concepts, facts, principles and methods</b>	<b>M:</b> Consistently describes: how organisms depend on living and nonliving things; the role of the sun in shaping our earth; the effects of force on the motion of objects; and how electrical energy can be transferred or transformed.	<b>M:</b> Consistently describes: how organisms depend on living and nonliving things; the role of the sun in shaping our earth; the effects of force on the motion of objects; and how electrical energy can be transferred or transformed.	<b>M:</b> Consistently describes: how organisms depend on living and nonliving things; the role of the sun in shaping our earth; the effects of force on the motion of objects; and how electrical energy can be transferred or transformed.
	<b>P:</b> Inconsistently describes: how organisms depend on living and nonliving things; the role of the sun in shaping our earth; the effects of force on the motion of objects; and how electrical energy can be transferred or transformed.	<b>P:</b> Inconsistently describes: how organisms depend on living and nonliving things; the role of the sun in shaping our earth; the effects of force on the motion of objects; and how electrical energy can be transferred or transformed.	<b>P:</b> Inconsistently describes: how organisms depend on living and nonliving things; the role of the sun in shaping our earth; the effects of force on the motion of objects; and how electrical energy can be transferred or transformed.
<b>Observes, questions and problem solves using appropriate vocabulary</b>	<b>M:</b> Accurately makes and records observations and predictions when conducting scientific investigations, and generate questions.	<b>M:</b> Accurately makes and records observations and predictions when conducting scientific investigations, and generate questions.	<b>M:</b> Accurately makes and records observations and predictions when conducting scientific investigations, and generate questions.
	<b>P:</b> Inconsistently makes and records accurate observations and predictions when conducting scientific investigations, and asks limited questions.	<b>P:</b> Inconsistently makes and records accurate observations and predictions when conducting scientific investigations, and asks limited questions.	<b>P:</b> Inconsistently makes and records accurate observations and predictions when conducting scientific investigations, and asks limited questions.
<b>Records, interprets and communicates scientific data</b>	<b>M:</b> Consistently analyzes, gathers and presents observational data using words, pictures, labels and graphs and communicates conclusions based on patterns found in the data.	<b>M:</b> Consistently analyzes, gathers and presents observational data using words, pictures, labels and graphs and communicates conclusions based on patterns found in the data.	<b>M:</b> Consistently analyzes, gathers and presents observational data using words, pictures, labels and graphs and communicates conclusions based on patterns found in the data.
	<b>P:</b> Inconsistently analyzes, gathers and presents observational data using words, pictures, labels and graphs and communicates conclusions based on patterns found in the data.	<b>P:</b> Inconsistently analyzes, gathers and presents observational data using words, pictures, labels and graphs and communicates conclusions based on patterns found in the data.	<b>P:</b> Inconsistently analyzes, gathers and presents observational data using words, pictures, labels and graphs and communicates conclusions based on patterns found in the data.
<b>Effort</b>	<b>M:</b> Students will usually work independently and collaboratively with minimal assistance. Students will consistently attend to precision.	<b>M:</b> Students will usually work independently and collaboratively with minimal assistance. Students will consistently attend to precision.	<b>M:</b> Students will usually work independently and collaboratively with minimal assistance. Students will consistently attend to precision.
	<b>P:</b> Students will often work independently and collaboratively with assistance. Students will inconsistently attend to precision.	<b>P:</b> Students will often work independently and collaboratively with assistance. Students will inconsistently attend to precision.	<b>P:</b> Students will often work independently and collaboratively with assistance. Students will inconsistently attend to precision.