

Math and Science Grade 5 Progress Report Rubric

Mathematics	December	March	June
Adds, subtracts, multiplies and divides with automaticity	E: Students will add and subtract within 20, and multiply and divide within 100, completing more than 30 problems a minute.	E: Students will add and subtract within 20, and multiply and divide within 100, completing more than 32 problems a minute.	E: Students will add and subtract within 20, and multiply and divide within 100, completing more than 33 problems a minute.
	M: Students will add and subtract within 20, and multiply and divide within 100, completing between 21-30 problems a minute.	M: Students will add and subtract within 20, and multiply and divide within 100, completing between 22-32 problems a minute.	M: Students will add and subtract within 20, and multiply and divide within 100, completing between 23-33 problems a minute.
	P: Students will add and subtract within 20, and multiply and divide within 100, completing between 16-20 problems a minute.	P: Students will add and subtract within 20, and multiply and divide within 100, completing between 17-21 problems a minute.	P: Students will add and subtract within 20, and multiply and divide within 100, completing between 18-22 problems a minute.
	N: Students will add and subtract within 20, and multiply and divide within 100, completing less than 16 problems a minute.	N: Students will add and subtract within 20, and multiply and divide within 100, completing less than 17 problems a minute.	N: Students will add and subtract within 20, and multiply and divide within 100, completing less than 18 problems a minute.
Recognizes and applies the place value patterns of our base ten number system	M: Students will consistently explain patterns in the number system and recognize that a digit in one place represents 10 times as much as it represents in the place to its right and $\frac{1}{10}$ as much as the place to its left. Students will consistently read and write decimals to the thousandths place in standard, word and expanded form.	M: Students will consistently explain patterns in the number system and recognize the powers of ten relationships. Students will consistently read and write decimals to the thousandths place in standard, word and expanded form.	M: Students will consistently explain patterns in the number system and recognize the powers of ten relationships. Students will consistently read and write decimals to the thousandths place in standard, word and expanded form.
	P: Students will inconsistently explain patterns in the number system and recognize that a digit in one place represents 10 times as much as it represents in the place to its right and $\frac{1}{10}$ as much as the place to its left.	P: Students will inconsistently explain patterns in the number system and recognize the powers of ten relationships.	P: Students will inconsistently explain patterns in the number system and recognize the powers of ten relationships.
Performs operations and estimates with multi-digit whole numbers, decimals and fractions	M: Students will consistently add, subtract, multiply and divide whole numbers. Students will consistently use strategies based on place value, properties of operations and inverse operations to estimate solutions to problems.	M: Students will consistently use strategies based on place value, properties of operations and inverse operations. Students will consistently use strategies based on place value, properties of operations and inverse operations to estimate solutions to problems. Students will consistently understand that the properties of operations that apply to whole numbers also apply to decimals and fractions.	M: Students will consistently use strategies based on place value, properties of operations and inverse operations. Students will consistently use strategies based on place value, properties of operations and inverse operations to estimate solutions to problems. Students will consistently understand that the properties of operations that apply to whole numbers also apply to decimals and fractions.
	P: Students will inconsistently add, subtract, multiply and divide whole numbers. Students will inconsistently use strategies based on place value, properties of operations and inverse operations to estimate solutions to problems.	P: Students will inconsistently use strategies based on place value, properties of operations and inverse operations. Students will inconsistently use strategies based on place value, properties of operations and inverse operations to estimate solutions to problems. Students will inconsistently understand that the properties of operations that apply to whole numbers also apply to decimals and fractions.	P: Students will inconsistently use strategies based on place value, properties of operations and inverse operations. Students will inconsistently use strategies based on place value, properties of operations and inverse operations to estimate solutions to problems. Students will inconsistently understand that the properties of operations that apply to whole numbers also apply to decimals and fractions.
Creates, compares and computes with fractions and Grade 5	M: Students will consistently add and subtract fractions and decimals to the hundredths place using models. Students will consistently use strategies to accurately compute. Students will consistently compare fractions	M: Students will consistently add, subtract, multiply and divide whole numbers, fractions and decimals to the hundredths place using models. Students will consistently use strategies to accurately compute. .	M: Students will consistently add, subtract, multiply and divide whole numbers, fractions and decimals to the hundredths place using models. Students will consistently use strategies to accurately compute.

decimals	and decimals to the thousandths place using $<$, $>$, $=$.	Students will consistently compare decimals to the thousandths place using $<$, $>$, $=$.	Students will consistently compare decimals to the thousandths place using $<$, $>$, $=$.
	P: Students will inconsistently add and subtract fractions and decimals to the hundredths place using models. Students will inconsistently use strategies to accurately compute. Students will inconsistently compare fractions and decimals to the thousandths place using $<$, $>$, $=$.	P: Students will inconsistently add, subtract, multiply and divide fractions and decimals to the hundredths place using models. Students will inconsistently use strategies to accurately compute. Students will inconsistently compare fractions and decimals to the thousandths place using $<$, $>$, $=$.	P: Students will inconsistently add, subtract, multiply and divide fractions and decimals to the hundredths place using models. Students will inconsistently use strategies to accurately compute. Students will inconsistently compare fractions and decimals to the thousandths place using $<$, $>$, $=$.
Solves problems using measurement	N/A	N/A	M: Students will consistently convert among different sized metric and customary units within a given measurement system. Students will consistently use four operations to solve multi-step word problems involving measurement and measurement conversions. P: Students will inconsistently convert among different sized metric and customary units within a given measurement system. Students will inconsistently use four operations to solve multi-step word problems involving measurement and measurement conversions.
	N/A	N/A	M: Students will consistently identify, classify and draw figures and their attributes. Students will consistently understand that two-dimensional figures can be classified into categories and subcategories. P: Students will inconsistently identify, classify and draw figures and their attributes. Students will inconsistently understand that two-dimensional figures can be classified into categories and subcategories.
Classifies figures into categories based on attributes	N/A	M: Students will consistently identify, classify and draw figures and their attributes. Students will consistently understand that two-dimensional figures can be classified into categories and subcategories. P: Students will inconsistently identify, classify and draw figures and their attributes. Students will inconsistently understand that two-dimensional figures can be classified into categories and subcategories.	M: Students will consistently identify, classify and draw figures and their attributes. Students will consistently understand that two-dimensional figures can be classified into categories and subcategories. Students will consistently recognize volume as an attribute of solid figures. P: Students will inconsistently identify, classify and draw figures and their attributes. Students will inconsistently understand that two-dimensional figures can be classified into categories and subcategories. Students will inconsistently recognize volume as an attribute of solid figures.
	M: 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. P: 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.	M: 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. P: 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.	M: 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. P: 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.
Effort	M: Students will consistently work independently and collaboratively with minimal assistance. Students will consistently attend to precision.	M: Students will consistently work independently and collaboratively with minimal assistance. Students will consistently attend to precision.	M: Students will consistently work independently and collaboratively with minimal assistance. Students will consistently attend to precision.

P: Students will inconsistently work independently and collaboratively with assistance. Students will inconsistently attend to precision.

P: Students will inconsistently work independently and collaboratively with assistance. Students will inconsistently attend to precision.

P: Students will inconsistently work independently and collaboratively with assistance. Students will inconsistently attend to precision.

Science	December	March	June
Understands scientific concepts, facts, principles and methods	M: Consistently describes and explains: the role of energy as light and sound; the structure and function of organs; how the relative position of earth in our solar system effects or planet; and how living things affect productivity.	M: Consistently describes and explains: the role of energy as light and sound; the structure and function of organs; how the relative position of earth in our solar system effects or planet; and how living things affect productivity.	M: Consistently describes and explains: the role of energy as light and sound; the structure and function of organs; how the relative position of earth in our solar system effects or planet; and how living things affect productivity.
	P: Inconsistently describes and explains: the role of energy as light and sound; the structure and function of organs; how the relative position of earth in our solar system effects or planet; and how living things affect productivity.	P: Inconsistently describes and explains: the role of energy as light and sound; the structure and function of organs; how the relative position of earth in our solar system effects or planet; and how living things affect productivity.	P: Inconsistently describes and explains: the role of energy as light and sound; the structure and function of organs; how the relative position of earth in our solar system effects or planet; and how living things affect productivity.
Observes, questions and problem solves using appropriate vocabulary	M: Consistently gathers and records observational data, asks questions and makes predictions to conduct scientific investigations related to the role of energy, the structures and function of organisms and the earth's position in the solar system with some errors.	M: Consistently gathers and records observational data, asks questions and makes predictions to conduct scientific investigations related to the role of energy, the structures and function of organisms and the earth's position in the solar system with some errors.	M: Consistently gathers and records observational data, asks questions and makes predictions to conduct scientific investigations related to the role of energy, the structures and function of organisms and the earth's position in the solar system with some errors.
	P: Inconsistently gathers and records observational data, asks questions and makes predictions to conduct scientific investigations related to the role of energy, the structures and function of organisms and the earth's position in the solar system. Work may contain some errors.	P: Inconsistently gathers and records observational data, asks questions and makes predictions to conduct scientific investigations related to the role of energy, the structures and function of organisms and the earth's position in the solar system. Work may contain some errors.	P: Inconsistently gathers and records observational data, asks questions and makes predictions to conduct scientific investigations related to the role of energy, the structures and function of organisms and the earth's position in the solar system. Work may contain some errors.
Records, interprets and communicates scientific data	M: Consistently analyzes data, presents observations using words, graphs and labeled drawings and makes conclusions based on patterns found in the data. Work may contain errors.	M: Consistently analyzes data, presents observations using words, graphs and labeled drawings and makes conclusions based on patterns found in the data. Work may contain errors.	M: Consistently analyzes data, presents observations using words, graphs and labeled drawings and makes conclusions based on patterns found in the data. Work may contain errors.
	P: Inconsistently analyzes data, presents observations using words, graphs and labeled drawings and makes conclusions based on patterns found in the data. Work may contain errors.	P: Inconsistently analyzes data, presents observations using words, graphs and labeled drawings and makes conclusions based on patterns found in the data. Work may contain errors.	P: Inconsistently analyzes data, presents observations using words, graphs and labeled drawings and makes conclusions based on patterns found in the data. Work may contain errors.
Effort	M: Students will usually work independently and collaboratively with minimal assistance. Students will consistently attend to precision.	M: Students will usually work independently and collaboratively with minimal assistance. Students will consistently attend to precision.	M: Students will usually work independently and collaboratively with minimal assistance. Students will consistently attend to precision.
	P: Students will often work independently and collaboratively with assistance. Students will inconsistently attend to precision.	P: Students will often work independently and collaboratively with assistance. Students will inconsistently attend to precision.	P: Students will often work independently and collaboratively with assistance. Students will inconsistently attend to precision.