	1 = Novice	2 = Approaching	3 = Proficient	4 = Advanced
Adding & Subtracting Rational Numbers	Engaged in the practice of adding and subtracting whole numbers.	Represents addition and subtraction of integers on a model OR solves simple mathematical problems involving the addition and subtraction of integers.	Fluently adds and subtracts integers using strategies AND describes addition and subtraction integers using a model.	Fluently adds and subtracts rational numbers using strategies AND describes addition and subtraction rational numbers using a model. (7.NS.1)
Multiplying and Dividing Rational Numbers	Engaged in the practice of multiplying and dividing integers AND/OR identifying rational numbers in one other form.	Identifies rational numbers in other forms (fractions, terminating decimals, and repeating decimals) OR solves simple mathematical problems involving multiplication and division of integers.	Fluently multiplies and divides integers and understands the definition of integers AND how multiplying integers satisfy the properties of operations.	Fluently multiplies and divides rational numbers and understands the definition of rational numbers AND how multiplying rational numbers satisfy the properties of operations. (7.NS.2)
Real-world problems with Operations of Rational Numbers	With help and support, identifies the content useful for solving the problem.	Solves real world and mathematical problems involving the one operation with integers OR identifies the expression needed to solve the real-world problem.	Solves real world and mathematical problems involving operations of integers AND interprets the solution of the problem.	Solves real world and mathematical problems involving operations of rational numbers AND interprets the solution of the problem. (7.NS.3)
Makes Sense of Problems and Persevere	Solves mathematical problems with structured support .	Engages in mathematical problems by working to understand the questions that is asked, trying different strategies or identifying why their solution make sense.	Actively engages in solving real-world and mathematical problems by working to understand the information that is in the problem and the questions that is asked, trying different strategies and identifying why their solution make sense.	Not Assessed
Attend to Precision	Attempts to communicate work and reasoning, but math vocabulary and units are absent AND calculates with repeated basic computation errors.	Attempts to communicate work and reasoning using math vocabulary and units AND calculates with basic computation errors.	Communicates work and reasoning using math vocabulary and units AND calculates with little or no basic computations error.	Not Assessed

	1 – Novice	2 = Approaching	3 = Proficient	4 = Advanced
Equivalent Expressions	Engages in the guided practice of identifying equivalent expressions.	Applies a property of operations to write an equivalent expressions with integer coefficients.	Applies properties of operations as strategies to add, subtract, factor and expand linear expressions with integers to write equivalent expressions.	Applies properties of operations as strategies to add, subtract, factor and expand linear expressions with rational coefficients to write equivalent expressions (7.EE.1)
Multi-Step Real-world Problems with Integers	Engages in the guided practice of writing numbers in another form (fractions, integers, decimals).	Solves one-step mathematical problems with integers in any form OR converts a number to another form (fractions, integers, decimals).	Solves multi-step real- world and mathematical problems posed with integers in any form AND assess the reasonableness of answers using mental computation and estimation strategies.	Solves multi-step real- world and mathematical problems posed with rational numbers in any form AND assess the reasonableness of answers using mental computation and estimation strategies. (7.EE.3)
Solving Equations	Engages in guided practice of solving equations.	Solves one-step equations in the form of px = r and $x + p = rwith integercoefficients.$	Solves two-step equations including word problems in the form of $px + q = r$ and p(x + q) = r where coefficients are integers and identifies the sequence of the operations used in each approach.	Solves two-step equations including word problems in the form of $px + q = r$ and p(x + q) = r where coefficients are rational numbers and identifies the sequence of the operations used in each approach. (7.EE.4)
Makes Sense of Problems and Persevere	Solves mathematical problems with structured support .	Engages in mathematical problems by working to understand the questions that is asked, trying different strategies or identifying why their solution make sense.	Actively engages in solving real-world and mathematical problems by working to understand the information that is in the problem and the questions that is asked, trying different strategies and identifying why their solution make sense.	Not Assessed
Attend to Precision	Attempts to communicate work and reasoning, but math vocabulary and units are absent AND calculates with repeated basic computation errors.	Attempts to communicate work and reasoning using math vocabulary and units AND calculates with basic computation errors.	Communicates work and reasoning using math vocabulary and units AND calculates with little or no basic computations error.	Not Assessed

	1 – Novice	2 = Approaching	3 = Proficient	4 = Advanced
Unit Rates	With guidance and support, identifies the constant of proportionality or unit rate.	Identifies the constant of proportionality or unit rate.	Computes unit rates associated with ratios of fractions. (7.RP.1)	Applies and explains reasoning in a multistep unit rate real world problem and gives a detailed explanation in the context of problem using mathematical vocabulary.
Proportional Relationships	With guidance and support, identifies graphs or equations that represent a proportional relationship with limited choices.	Identifies the unit rate or constant rate of proportionality from its table, equation OR graph.	Represents proportional relationships by equations AND explains what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate. (7.RP.2)	Explains in detail using mathematical vocabulary the relationship of a table of values, equation, real world situation and graph in a proportional relationship.
Ratio and Percent Problems	Engages in the practice of writing a proportional relationship.	Uses a given proportional relationships to solve single-step ratio or percent problems.	Uses a proportional relationship to solve multistep ratio and percent problems (7.RP.3) AND rewrites expressions in different forms in a problem context to demonstrate how quantities are related. (7.EE.2)	Solves a multi-step ratio problem and gives a detailed explanation in the context of problem using mathematical vocabulary.
Scaled Drawings	With guidance and support, recognizes the geometric figure to its scaled counterpart	Solves problems involving scale drawings of lengths.	Solves problems involving scale drawings of geometric figures including computing real lengths and areas from a scale drawing AND reproduces a scale drawing at a different scale. (7.G.1)	Not Assessed
Solving Inequalities	Engages in guided practice of graphing and writing inequalities.	Solves and graphs one- step inequalities $px > r$ and $px < r$.	Solves and graphs two- step inequalities and word problems in the form of $px + q > r$ and px + q < r. (7.EE.4)	Solves and graphs real world problems leading to inequalities with variables and rational coefficients on both sides AND gives a detailed explanation in the context of problem using mathematical vocabulary.

Makes Sense of Problems and Persevere	Solves mathematical problems with structured support .	Engages in mathematical problems by working to understand the questions that is asked, trying different strategies or identifying why their solution make sense.	Actively engages in solving real-world and mathematical problems by working to understand the information that is in the problem and the questions that is asked, trying different strategies and identifying why their solution make sense.	Not Assessed
Attend to Precision	Attempts to communicate work and reasoning, but math vocabulary and units are absent AND calculates with repeated basic computation errors.	Attempts to communicate work and reasoning using math vocabulary and units AND calculates with basic computation errors.	Communicates work and reasoning using math vocabulary and units AND calculates with little or no basic computations error.	Not Assessed

	1 – Novice	2 = Approaching	3 = Proficient	4 = Advanced
	With help and support	Recognizes or recalls	Uses facts about	Uses facts about
∞	can identify	the features of	supplementary	supplementary
suc				
ctic	supplementary.	supplementary.	vertical, and adjacent	vertical, and adjacent
true	vertical, or adjacent	vertical, and adjacent	anales in a multistep	anales in a multistep
suc	anales.	anales OR constructs	problem to write and	problem to write and
<u>e</u> C		geometric figures given	solve simple equations	solve multi-step
ps, ng		conditions using tools.	for an unknown angle	equations for an
Iric			in a figure (7.G.5) AND	unknown angle in a
tior			recognizes that no	figure and gives a
ela			triangle, a unique	detailed explanation in
а П			triangle or multiple	the context of problem
lgle			triangles can be	using mathematical
Ar			formed from a given	vocabulary.
			set of conditions (7.G.2)	
	With help and support,	Solves mathematical	Uses nets to solve real	Solves for dimensions of
ea	matches the net to the	problems involving	world and	the prism and cylinder
Ar	prism or cylinder OR	area or circumference	mathematical	given the surface area
ace	formulae for a since	of circles and/or area	problems involving	and other almensions
Jufo	two dimonsional	the pet of a cylinder or	surface area of prisms	and explains mell
d Sı	shape		composite solids (7 C 4)	
ana			AND describes cross-	vocabolary.
D			sections of right	
Are			rectangular prisms and	
			pyramids. (7.G.3)	
S	With help and support,	Identifies the formulas	Solves real-world and	Solves for dimensions of
0 Q	recognizes right prisms.	OR information needed	mathematical	the right prism or
ha		to calculate the	problems involving	cylinder given the
DS		volume of right prisms.	volumes of right prisms	volume and other
of 3			including composite	dimensions and gives a
e			solids. (7.G.6)	detailed explanation in
nm				the context of problem
Vol				using mathematical
				vocabulary.
	Engages in the	Generates a random	Analyzes and draws	Draws multiple
p	practice of generating	sample and makes	Interences about a	Interences when
a ar	random samples.	predictions based on	population using single	comparing two
suo		ine sample.	and multiple random	populations using
ic ti			measures of center	
olle Icu			and variability for the	detailed explanation in
ΩÖ			numerical data set	the context of problem
ato			(7.SP.1-4)	using mathematical
				vocabulary.

Probability	Engages in the practice of collecting data on a chance process.	Collects data on a chance process and makes predictions based on probability models.	Develop a probability model to find probabilities of theoretical events and compares/contrasts probabilities from an experimental model AND finds probabilities of compound events using organized lists, tables, tree diagrams, and simulations (7.SP.5- 8)	Finds probability of multiple independent and dependent events and gives a detailed explanation in the context of problem using mathematical vocabulary.
Adding & Subtracting Rational Numbers	Engaged in the practice of adding and subtracting whole numbers.	Solves simple mathematical problems involving the addition and subtraction of integers .	Fluently adds and subtracts rational numbers using strategies. (7.NS.1)	Generalizes addition and subtraction of rational numbers by giving a detailed explanation in the context of problem using mathematical vocabulary
Multiplying and Dividing Rational Numbers	Engaged in the practice of multiplying and dividing integers AND/OR identifying rational numbers in one other form.	Identifies rational numbers in other forms (fractions, terminating decimals, and repeating decimals) AND/OR solves simple mathematical problems involving multiplication and division of integers.	Fluently multiplies and divides rational numbers and understands the definition of rational numbers. (7.NS.2)	Generalizes multiplying and dividing of rational numbers by giving a detailed explanation in the context of problem using mathematical vocabulary.
Real-world problems with Operations of Rational Numbers	With help and support, identifies the content useful for solving the problem.	Solves real world and mathematical problems involving the one operation with integers OR identifies the expression needed to solve the real-world problem.	Solves real world and mathematical problems involving operations of rational numbers AND interprets the solution of the problem. (7.NS.3)	Solves multi-step real world and mathematical problems involving the four operations of rational numbers and giving a detailed explanation in the context of problem using mathematical vocabulary.
Solving Equations	Engages in guided practice of solving equations.	Solves one-step equations in the form of px = r and $x + p = rOR solves equationswith integercoefficients.$	Solves two-step equations including word problems in the form of $px + q = r$ and p(x + q) = r where coefficients are rational numbers and identifies the sequence of the operations used in each approach. (7.EE.4)	Solves equations with variables on both sides where coefficients are rational AND gives a detailed explanation in the context of problem using mathematical vocabulary.

Makes Sense of Problems and Persevere	Solves mathematical problems with structured support .	Engages in mathematical problems by working to understand the questions that is asked, trying different strategies or identifying why their solution make sense.	Actively engages in solving real-world and mathematical problems by working to understand the information that is in the problem and the questions that is asked, trying different strategies and identifying why their solution make sense.	Not Assessed
Attend to Precision	Attempts to communicate work and reasoning, but math vocabulary and units are absent AND calculates with repeated basic computation errors.	Attempts to communicate work and reasoning using math vocabulary and units AND calculates with basic computation errors.	Communicates work and reasoning using math vocabulary and units AND calculates with little or no basic computations error.	Not Assessed