CONTENT AREA: Mathematics GRADE: 8 UNIT #: 1 **UNIT NAME: Geometry**

Major Supporting Additional (identified by PARCC Model Content Frameworks) **Bold type indicates grade level fluency requirements.** (identified by PARCC Model Content Frameworks)

8.6.5	Justify facts about the exterior angles of a triangle, the sum of the measures of the interior angles of a triangle and the angle-angle relationship used to identify similar triangles.	7
100 100 185	Justify facts about angles created when parallel lines are cut by a transversal.	6
8.G.4	Apply an effective sequence of transformations to determine that figures are similar when corresponding angles are congruent and corresponding sides are proportional. Write similarity statements based on such transformations.	5
90	Recognize dilation as a reduction or an enlargement of a figure and determine the scale factor.	4
8.G.3	Use the coordinate plane to locate pre-images of two-dimensional figures and determine the coordinates of a resultant image after applying dilations, rotations, reflections, and translations.	3
8.G.2	Apply an effective sequence of rotations, reflections, and translations to prove that two dimensional figures are congruent.	2
8.	Utilize the properties of rotation, reflection, and translation to model and relate pre-images of lines, line segments, and angles to their resultant image through physical representations and/or Geometry software.	1
CCSS/NJCCCS	STUDENT LEARNING OBJECTIVES	#

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CONTENT AREA: Mathematics GRADE: 8 UNIT #: 1 **UNIT NAME: Geometry**

Wager Supporting Additional (identified by PARCC Model Content Frameworks)

Bold type indicates grade level fluency requirements. (identified by PARCC Model Content Frameworks)

Code #	CCSS and/or NJCCCS
8 G.1	Verify experimentally the properties of rotations, reflections, and translations. a. Lines are taken to lines, and line segments to line segments of the same length.
	b. Angles are taken to angles of the same measure.
	c. Parallel lines are taken to parallel lines.
8.G.2	Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence
	of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence
	between them.
3 G G	Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.
\$ Q.4	Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of
	rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits
	the similarity between them
8.6.5	Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when
	parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. For example, arrange three
	copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of
	transversals why this is so.

CONTENT AREA: Mathematics GRADE: 8 UNIT #: 2

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#	STUDENT LEARNING OBJECTIVES	CORRESPONDING CCSS
	Compare rational and irrational numbers to demonstrate that the decimal expansion of irrational	
 - >	numbers do not repeat; show that every rational number has a decimal expansion which	es NG 1
	eventually repeats and convert such decimals into rational numbers.	
)	Use rational numbers to approximate and locate irrational numbers on a number line and	
N	estimate the value of expressions involving irrational numbers.	
သ	Apply the properties of integer exponents to simplify and write equivalent numerical expressions.	
A	Use scientific notation to estimate and express the values of very large or very small numbers and	
ŧ	compare their values (how many times larger/smaller is one than the other).	
	Perform operations using numbers expressed in scientific notation, including problems where	
ъ	both decimals and scientific notation are used (interpret scientific notation generated when	
	technology has been used for calculations).	
ر ا	In real-world problem solving situations choose units of appropriate size for measurement of very	
c	small and very large quantities.	

Wajor Content Supporting Content Additional Content (Identified by PARCC Model Content Frameworks).

Bold type indicates grade level fluency requirements. (Identified by PARCC Model Content Frameworks).

Selected Opportunities for Connection to Mathematical Practices

- Make sense of problems and persevere in solving them.
- SLO 6 Use problems that describe complex real-world conditions.
- ? Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.

CONTENT AREA: Mathematics GRADE: 8 UNIT #: 2 UNIT NAME: The Number System

- Use appropriate tools strategically.
- Attend to precision.

SLO 6 Determine appropriate sized units for a given context.

7. Look for and make use of structure.

SLO 3 Examine the form of expressions involving integer exponents and apply the correct property of exponents to create equivalent expressions.

8. Look for and express regularity in repeated reasoning.

SLO 1 Explain orally or in written language the difference between a rational and an irrational number.

All of the content presented at this grade level has connections to the standards for mathematical practices.

Bold type identifies possible starting points for connections to the SLOs in this unit.

Code #	Common Core State Standards
	Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal
	expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which
	repeats eventually into a rational number.
	Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a
	number line diagram, and estimate the value of expressions. For example, by truncating the decimal expansion of the square
	root of 2, show that the square root of 2 is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get
	better approximations.
	Know and apply the properties of integer exponents to generate equivalent numerical expressions.
	Use numbers expressed in the form of a single digit times an integer power of 10 estimate very large or very small quantities,
(58 En En	and to express how many times as much one is than the other. For example, estimate the population of the United States as 3
	$ imes$ 10 8 and the population of the world as 7 $ imes$ 10 9 and determine that the world population is more than 20 times larger.

CONTENT AREA: Mathematics GRADE: 8 UNIT #: 2 UNIT NAME: The Number System



scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or Perform operations with numbers expressed in scientific notation, including problems where both decimals decimal and very small quantities. Interpret scientific notation that has been generated by technology.

Bold type indicates grade level fluency requirements. (Identified by PARCC Model Content Frameworks). Wajor Content Supporting Content Additional Content (Identified by PARCC Model Content Frameworks).

\$10:1	Student Learning Objective (SLO) Graph and analyze the different representations of proportional relationships and interpret the unit ra	Student Learning Objective (SLO) Graph and analyze the different representations of	Language Objective <u>Demonstrate comprehension</u> of the different of the di	bjective the different relationships by	VU: Slope, proportion, measurement units
8.EE.5	the slope of the graph which indicates the rate of	h indicates the rate of	interpreting and explaining the unit rate as the slope of the	unit rate as the slope of the	ITO Norative (w
WIDA ELDS: 3	change.		graph using Charts/Posters, a personal math dictionary and models.	ersonal math dictionary and	NOT), follow directions
Speaking Reading			Note: ELLs mav not be familiar with US measurement.	vith US measurement,	LC: Varies by ELP level
Writing			ounces, pounds, tons, acres		
	ELPI	ELP 2	ELP 3	ELP4	ELP 5
Language	Demonstrate	Demonstrate	Demonstrate comprehension	Demonstrate	Demonstrate
Objectives	comprehension of the	comprehension of the	of the different	comprehension of the	comprehension of the
	different representations	different representations of	representations of	different representations	different representations
	of proportional	proportional relationships	proportional relationships by	of proportional	of proportional
	relationships by	by interpreting and	interpreting and explaining	relationships by	relationships by
	interpreting and	explaining in L1 and/or use	using key, technical	interpreting and	interpreting and explaining
	explaining in L1 and/or	selected technical	vocabulary in simple	explaining using key	the unit rate as the slope of
	use gestures, examples	vocabulary in phrases and	sentences.	technical vocabulary in	the graph using technical
	and selected technical	short sentences.		expanded sentences.	vocabulary in complex
	words.		ALADOGRAPHICA AND STREET, T. L.	Andrew Market Control of the Control	sentences.
Learning	Teacher Modeling	Teacher Modeling	Teacher Modeling	Teacher Modeling	Teacher Modeling
Supports	Personal math dictionary	Personal math dictionary	Personal math dictionary	Small group/triads	
	Small group/triads	Small group/triads	Small group/triads		
	Word/Picture Wall	Word/symbols wall	Sentence Starter		
	L1 text and/or support	L1 text and/or support	Word Wall		
	Charts/Posters	Sentence Frame	Charts/Posters		
		Charts/Posters			

20.3	Student Learni	Student Learning Objective (SLO)	Language Objective Demonstrate comprehension of how to	bjective f how to derive the equation	Language Needed VU: Slope, measurement
SLO: 2 CCSS:	Derive the equation of a line (y = mx for a line the origin and the equation $y = mx + b$ for a line	Derive the equation of a line (y = mx for a line through the origin and the equation y = mx +b for a line	<u>Demonstrate comprehension</u> of now to derive the equation of a line and use similar triangle to explain why the slope is	nsion of how to derive the equation triangle to explain why the slope is	units, coordinate plane
8.EE.6 WIDA	intercepting the vertical axis at b) and use similar triangles to explain why the slope (m) is the same hetween any two points on a non-vertical line in the	is at b) and use similar e slope (m) is the same	the same between any two points on a non-vertical line in the coordinate plane <i>using a</i> Word Wall, Think Alouds, Charts/Posters and Partner work.	nts on a non-vertical line in ord Wall, Think Alouds,	LFC: Comparative phrases, relative clauses
Reading	coordinate plane.				LC: Varies by ELP leve
C	EP1	ELP 2	ELP 3	ELP 4	ELP.5
Language	Demonstrate	Demonstrate	Demonstrate comprehension	Demonstrate	Demonstrate
Objectives	comprehension of the	comprehension of the	of the equation of a line and	comprehension of the	comprehension of the
	equation of a line and	equation of a line and why	why the slope is the same	equation of a line and why	equation of a line and why
	why the slope is the	the slope is the same	between any two points on a	the slope is the same	the slope is the same
	same between any two	between any two points on	non-vertical line in the	between any two points	between any two points on
	points on a non-vertical	a non-vertical line in the	coordinate plane using key,	on a non-vertical line in	a non-vertical line in the
	line in the coordinate	coordinate plane in L1	technical vocabulary in simple	the coordinate plane using	coordinate plane using
	plane in L1 and/or use	and/or use selected	sentences.	key, technical vocabulary	technical vocabulary in
	gestures, examples and	technical vocabulary in		in expanded sentences.	complex sentences.
	selected technical words.	phrases and short			
		sentences.		A CONTRACTOR OF THE CONTRACTOR	
Learning	Think Alouds	Think Alouds	Think Alouds	Think Alouds	Think Alouds
Supports	Charts/Posters	Charts/Posters	Charts/Posters	Charts/Posters	Charts/Posters
	Partner work	Partner work	Partner work	<u>Partner work</u>	
	Demonstration	Word/Picture Wall	Sentence Starter		
	Word/Picture Wall	L1 text and/or support	Word Wall		
	L1 text and/or support	Sentence Frame			
	Completed examples	<u>Examples</u>			

SLO: 3 CCSS: 8.EE.7 WIDA	Student Learning Objective (SLO) Solve linear equations in one variable with rational number coefficients that might require expanding expressions using the distributive property and/or combining like terms, including examples with one	Student Learning Objective (SLO) equations in one variable with rational fficients that might require expanding using the distributive property and/or ke terms, including examples with one	Language Objective Demonstrate comprehension of written problems on how to solve linear equations in one variable with rational number coefficients that might require expanding expressions using the distributive property and/or	bjective written problems on how variable with rational require expanding e property and/or	Language Needed VU: Linear/non-linear, coefficients, solution, infinite
WIDA ELDS: 3 Reading Writing	combining like terms, including examples solution, infinite solutions, or no solution.	ing examples with one or no solution.	expressions using the distributive property and/or combining like terms, including examples with one solutic infinite solutions, or no solution using a Charts/Posters, a Word Wall and Math Journal.	istributive property analogical including examples with one solution, solution using a Charts/Posters, a varnal.	LFC: Question words LC: Varies by ELP level
	ELP 1	ELP 2	ELP 3	ELP 4	5 d13
Language	Demonstrate	Demonstrate	Demonstrate comprehension	Demonstrate	Demonstrate
Objectives	comprehension of written	comprehension of written	of written problems which use	comprehension of written	comprehension of written
	problems in L1 and/or	problems in L1 and/or which	key, technical vocabulary in	problems which use key,	problems which use
	which use gestures,	use selected technical	simple sentences on how to	technical vocabulary in	technical vocabulary in
	examples and selected	vocabulary in phrases and	solve linear équations in one	expanded sentences on	complex sentences on how
	technical words on how to	short sentences on how to	variable with rational number	how to solve linear	to solve linear equations in
	solve linear equations in	solve linear equations in one	coefficients.	equations in one variable	one variable with rational
	one variable with rational	variable with rational		with rational number	number coefficients.
	number coefficients.	number coefficients.	A STATE OF THE STA	coefficients.	Annua Caranta
Learning	Teacher Modeling	Teacher Modeling	Teacher Modeling	Teacher Modeling	Charts/Posters
Supports	Charts/Posters	Charts/Posters	Charts/Posters	Charts/Posters	Math Journal
	Math Journal	Math Journal	Math Journal	Math Journal	
	Word/Picture Wall	Word/Picture Wall	Sentence Starter		
	L1 text and/or support	L1 text and/or support	Word Wall		
	Illustrations/Illustrations/	Sentence Frame			
	diagrams/drawings/drawi				
	ngs				
	Competed examples				

Learning Manipulatives Manipulatives Supports Math Journal Math Journal Charts/Posters Charts/Posters Charts/Posters Word/Picture Wall Word/Picture Wall L1 text and/or support L1 text and/or support Illustrations/Illustrations/ Sentence Frame diagrams/drawings/drawi Sentence Frame	Language Explain orally and in Objectives writing how solutions correspond to points of intersection of their graphs in L1 and/or using gestures, examples and selected technical words in phrases. ELP 1 Explain orally and in how solutions correspond to points of intersection of their graphs in L1 and/or using selected technical vocabulary in phrases and short sentences.	fent Learning Objective (Flinear equations in two oraically, and/or graphically, and/or graphically and from their graphs, because post, both equations simulations simulations simulations simulations simulations simulations
ManipulativesManipulativesMath JournalMath JournalCharts/PostersCharts/PostersSentence StarterCharts/Posters	Explain orally and in writing how solutions correspond to points of intersection of their graphs using key, technical vocabulary in simple sentences. Explain orally and in writing writing how solutions correspond to points of intersection of their intersection of their graphs using key, technical vocabulary in expanded sentences.	Language Objective In writing how to solve sy, ariables by inspection, alg (estimate solutions) to de nd to points of intersection pulatives, Charts/Posters, I.
Manipulatives	Explain orally and in writing how solutions correspond to points of intersection of their graphs using technical vocabulary in complex y in sentences.	Langu Ir VU: Solutic plane LFC: Cause embedded LC: Varies I

Learning Teacher Modeling Teacher Modeling Supports Personal math dictionary Personal math dictionary Peer Coach Peer Coach Peer Coach Word/Picture Wall Word/Picture Wall L1 text and/or support L1 text and/or support Sentence Frame	s comprehension of the rate of change and initial value of real world data by identifying the function which models the linear relationship between two variables in L1 and/or using gestures, examples and selected technical words.	Listening Reading Writing ELP 1 ELP 2	Student Learning Objective (SLO) SLO: 5 Construct a function to model the linear relationship ccss: between two variables and determine the rate of change and initial value of the real world data it wIDA represents from either graphs or tabulated values.
tionary Charts/Posters Peer Coach Word Wall Sentence Starter	-	Demonstrate comprehension	Iship Demonstrate comprehe initial value of real work constructing functions: between two variables and personal math dicti
Teacher Modeling Charts/Posters	comprehension of the rate of change and initial value of real world data by identifying the function which models the linear relationship between two variables using key technical vocabulary in expanded sentences.	ELP 4	guage Objective nsion of the rate of change and data by identifying and that model linear relationships using a Word Wall, Charts/Posters onary.
<u>Charts/Posters</u>	comprehension of the rate of change and initial value of real world data by identifying the function which models the linear relationship between two variables using technical vocabulary in complex sentences.	LC: Varies by ELP level ELP/5 Demonstrate	Language Needed VU: Function, faucet, health club membership, constant rate, fee LFC: Embedded clauses

	Student Learnin	Student Learning Objective (SLO)	Language Objective	gective	Language Needed
SLO: 6 CCSS:	Sketch a graph of a function from a qualitative description and give a qualitative description of	Sketch a graph of a function from a qualitative description and give a qualitative description of a graph		nsion of graphs of functions by nction from a qualitative	VU: Function, ounces, constant rate of speed
8.F.5 WIDA ELDS:3	of a function. 2		description and giving a qualitative description of graph function using a personal math dictionary, Word Wall, examples, and a Think Alouds.	qualitative description of graph of a silvent math dictionary, Word Wall, louds.	LFC: Embedded clauses; comparatives
Reading Writing					LC: Varies by ELP level
	ELP1	ELP 2	ELP 3	ELP 4	ELP5
Language	Demonstrate	Demonstrate	Demonstrate comprehension of	Demonstrate	Demonstrate
Objectives	comprehension of	comprehension of functions	functions by sketching a graph	comprehension of	comprehension of
	functions by sketching a	by sketching a graph of a	of a function from a qualitative	functions by sketching a	functions by sketching a
	graph of a function from	function from a qualitative	description using key, technical	graph of a function from a	graph of a function from a
	a qualitative description	description in L1 and/or	vocabulary in simple sentences.	qualitative description	qualitative description
	in L1 and/or using	using selected technical		using key, technical	using technical vocabulary
	gestures and selected	vocabulary in phrases or		vocabulary in expanded	in complex sentences.
	technical words.	short sentences.	1 TANAN AND AND AND AND AND AND AND AND AND	sentences.	
Learning	Think Alouds	Think Alouds	Think Alouds	Think Alouds	Think Alouds
Supports	Personal math dictionary	Personal math dictionary	Sentence Starter		
	Word/Picture Wall	Word/Picture Wall	Word Wall		
	L1 text and/or support	L1 text and/or support	Illustrations/diagrams/drawings		
	Cloze Sentences	Sentence Frame			

CONTENT AREA: Mathematics GRADE: 8 UNIT #: 4 **UNIT NAME: Functions and Geomety**

		CORRESPONDING
#	STUDENT LEARNING OBJECTIVES	CCSS
•	Define functions as a rule that assigns one output to each input and determine if data) (
F	represented as a graph or in a table is a function.	100 Marian
2	Compare two functions each represented in a different way (numerically, verbally, graphically,	00 : T1 N
-	and algebraically) and draw conclusions about their properties (rate or change and intercepts).	
J	Utilize equations, graphs, and tables to classify functions as linear or non-linear, recognizing that	
u	y = mx + b is linear with a constant rate of change.	
	Evaluate square roots and cubic roots of small perfect squares and cubes respectively and use	
4	square and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$	S
	where \boldsymbol{p} is a positive rational number. Identify $\sqrt{2}$ as irrational.	A ANN
ъ	Explain a proof of the Pythagorean Theorem and its converse.	(6) (6)
	Utilize the Pythagorean Theorem to determine unknown side lengths of right triangles in two and	
σ	three dimensions to solve real-world and mathematical problems	
7	Use the Pythagorean Theorem to determine the distance between two points in the coordinate	3
`	plane.	

Wajor Content Supporting Content Additional Content (Identified by PARCC Model Content Frameworks).

Bold type indicates grade level fluency requirements. (Identified by PARCC Model Content Frameworks).

CONTENT AREA: Mathematics GRADE: 8 UNIT #: 4 UNIT NAME: Functions and Geomety

Selected Opportunities for Connection to Mathematical Practices

- Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.

SLO 2 Use functions that are represented in different ways to Identify and compare the rates of change and the intercepts of each

3. Construct viable arguments and critique the reasoning of others.

SLO 5 Explain the difference between the Pythagorean Theorem and its converse. Listen to or read the explanations of others and pose questions that will clarify or improve the explanations.

Model with mathematics.

SLO 7 Use the coordinates of a figure represented on a coordinate plane to determine the length of a missing side.

- Use appropriate tools strategically.
- 6. Attend to precision.
- Look for and make use of structure.

SLO 2 Identify the rate of change and the intercepts of functions represented in different ways

Look for and express regularity in repeated reasoning.

All of the content presented at this grade level has connections to the standards for mathematical practices.

Bold type identifies possible starting points for connections to the SLOs in this unit.

CONTENT AREA: Mathematics	ALL MALE MALE PROPERTY TO THE TEXT OF T
GRADE: 8	
UNIT #: 4	
UNIT NAME: Functions and Geomety	

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Wajor Content Supporting Content Additional Content (Identified by PARCC Model Content Frameworks).

Bold type indicates grade level fluency requirements. (Identified by PARCC Model Content Frameworks).

	UNIT NAME: Geometry	UNIT #: 5	GRADE: 8	CONTENT AREA: Mathematics
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	real-world and mathematical problems.	4
8.G.9	Know and apply the appropriate formula for the volume of a cone, a cylinder, or a sphere to solve	4
ANNUAL PROPERTY.	between two variables.	ţ
	Construct frequency/relative frequency tables to analyze and describe possible associations	N
	nonlinear association).	
	data patterns (clustering, outliers, positive or negative association, possible lines of best fit, and	2
(S. A. C.	Construct and interpret scatter plots for bivariate measurement data and identify and interpret	
	the slope and the intercept.	•
	Using a linear equation to model real life problems then solve it by interpreting the meaning of	
CCSS	OF ORDERS FROMWING ORDERS FOR	7
CORRESPONDING	STUDENT LEARNING ORIECTIVES	t

Wajor Content Supporting Content Additional Content (Identified by PARCC Model Content Frameworks).

Bold type indicates grade level fluency requirements. (Identified by PARCC Model Content Frameworks).

Selected Opportunities for Connection to Mathematical Practices

- 1. Make sense of problems and persevere in solving them.
- SLO 4 Involve problems that must be constructed and deconstructed in order to solve.
- Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.
- 4. Model with mathematics.
- SLOs 1, 2 and 3 Use equations, scatter plots, and frequency tables to model relationships between real-world quantities.
- 5. Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

All of the content presented at this grade level has connections to the standards for mathematical practices.

Revised 8/2/2017 8:56:00 AM

CONTENT AREA: Mathematics	The state of the s
GRADE: 8	
UNIT #: 5	
UNIT NAME: Geometry	

Bold type identifies possible starting points for connections to the SLOs in this unit.

Code #	Common Core State Standards
8.SP 1	Construct and interpret scatter plot for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear
	association.
	Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that
\$ 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the
	data points to the line.
11111	Use the equation of a linear model to solve problems in the context of bivariate data interpreting the slope and intercept. For
(0) (0) (0)	example, in a linear model for a biology experiment, interpret a slope of 1.5 cm/hr as meaning that an additional hour of
	sunlight each day is associated with an additional 1.5 cm in mature plant height.
The state of the s	Understand the patterns of association can also be seen in bivariate categorical data by displaying the frequencies and relative
•**	frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables
	collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association
6.4	between the two variables. For example, collect data from students in your class on whether or not they have a curfew on
	school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also
	tend to have chores?
8 0 0	Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical
0.0.0	problems.

Viajor Content Supporting Content Additional Content (Identified by PARCC Model Content Frameworks).

Bold type indicates grade level fluency requirements. (Identified by PARCC Model Content Frameworks).