Grade 8

Coach[®] Suite Implementation and Pacing Guide

Coach[®] Suite Implementation and Pacing Guide, Mathematics, Grade 8 562NA ISBN: 978-1-62928-928-1

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Pacing Guide

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Program Overview

Welcome to Triumph Learning's **Coach Suite Implementation and Pacing Guide**! You have received this guide because you are using one or more of our Coach products: *Instruction Coach, Support Coach,* or *Performance Coach.* This guide provides an organizational structure for implementing these products together. The Coach products are designed to provide a flexible instructional pathway that fits your classroom needs. Use the print and digital components of each product for the blended teaching and learning environment that best suits your teaching style.

Instruction Coach

Instruction and Practice

Use **Instruction Coach** as your core instruction.



Support Coach

Targeted Instruction and Practice

Use **Support Coach** to fill gaps in student understanding with scaffolded instruction.

Performance Coach

Reinforcement and Test Preparation

Use **Performance Coach** to extend understanding for your on-level students and provide practice with a variety of item types.





Teacher's Manua

Performance Coach (?) (8)







The Instructional Pathway



Digital Options for Blended Learning

Readiness

Teacher-driven Practice and Instructional Resources

Readiness is a digital resource library of proven Triumph Learning content. This online library enables teachers to choose among a variety of instructional approaches, guides interactive practice and discussion, assigns independent work that addresses the individual needs of students, and measures student progress with online assessments.

Waggle

Student-driven Adaptive Practice and Instruction

Waggle is Triumph Learning's new interactive learning system where practice meets differentiated learning. This adaptive platform helps teachers to understand student performance in real time, enabling students to be immediately remediated or accelerated to meet their needs. Waggle includes a digital version of the Coach Suite print products.



Addressing Key Instructional Shifts in Math



Greater focus on fewer topics

The Coach Suite provides greater focus in mathematics. The curriculum is centered on the major work at each grade level, and the supporting materials provide resources to deepen the time and energy spent on the major topics. The Pacing Guide on pages 2–33 will help in allotting proper time to the major work.

Compare $\frac{3}{5}$	and $\frac{7}{10}$.	
1 Use fractio	n strips to show $\frac{3}{5}$ and $\frac{7}{10}$.	
	$\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$	_
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	$\frac{3}{5} = \frac{6}{10}$	
The model	is show that $\frac{7}{10}$ equals $\frac{1}{10}$ more than $\frac{3}{5}$.	
2		
Compare t The whole	he fractions. strips are the same size.	
The part fo	$r\frac{3}{5}$ is less than the part for $\frac{7}{10}$.	
$\frac{3}{5}$ is less the	an 7/10.	
$\frac{3}{5} < \frac{7}{10}$		
$3 < \frac{7}{10}$		_

Instruction Coach Introduction and Instruction

Focus: 37 standards Full coverage of all standards



Support Coach Scaffolded Instruction

Focus: 20 standards More time and depth on key standards



Performance Coach

Instruction for Review and Reinforcement

Focus: 37 standards Full coverage of all standards

Coherence: Linking topics and thinking across grades

The Coach Suite is designed to build connections across the grade levels—foundational concepts are introduced at one level and extended and applied in the succeeding levels. These coherent progressions are supported by the structure of Support Coach, which explicitly connects the concepts from one grade level to those at the next grade level.

Grade 3	Grade 4	Grade 5
Grade 3 Operations Represent and solve problems involving multiplication and division. Understand properties of multiplication and the relationship between multiplication and division. Multiply and divide within 100.	Grade 4 Place Value Generalize place value understanding for multi-digit whole numbers. Use place value	Grade 5 Operations Write and interpret numerical expressions. Grade 5 Place Value Understand the place value system. Perform operations with multi-digit whole numbers and with decimals to hundredths.
Grade 3 Place Value	properties of operations to perform multi-digit arithmetic.	Grade 5 Fractions Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
Use place value understanding and properties of operations to perform multi-digit arithmetic.		Grade 5 Measurement Convert like measurement units within a given measurement system. Geometric measurement: Understand concepts of volume and relate volume to multiplication and to

Rigor: Pursuit of conceptual understanding, procedural skills and fluency, and application with equal intensity

The Coach Suite has lessons focused on each of the three major emphases in mathematics—concepts, skills, and problem solving/applications.

Lesson 8	Rounding Whole Numbers	
Lesson 9	🗲 🚳 Adding and Subtracting Whole Numbers 58	
Lesson 10	🚱 Multiplying Whole Numbers64	
Lesson 11	Dividing with One-Digit Divisors	
Domair	1 2 Review	



Problem Fluency Performance Solving Lesson Task

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Differentiating Learning

One way to differentiate learning in your classroom is to begin a lesson with the Instruction Coach materials. As you assess student needs, you can reach into the Suite for additional resources:



Coach[®] Suite Correlation

The chart below lists skills for the grade level and their correlations to coverage in the Triumph Learning Coach Suite. If you find that students are struggling with a particular skill, look to the lessons indicated in these *Coach* programs for review and remediation.

	Instruction Coach	Support	Performance
Grade 8	Mathematics	8 TARGET Foundational Mathematics	Coach (2) (8)
Skill	Instruction Coach Lesson(s)	Support Coach Lesson(s)	Performance Coach Lesson(s)
The Number System			
Identify irrational numbers and explain why they are rational and convert decimals into rational numbers	L1	L1	L1
Use rational approximations of irrational numbers to compare sizes of irrational numbers and approximate locations of irrational numbers on number lines	L2	L1	L2
Expressions & Equations			
Know and apply properties of integer exponents to generate equivalent expressions	L3		L3
Evaluate square roots and cube roots of small perfect squares and perfect cubes	L4	L2	L4
Compare two numbers expressed in scientific notation and express how much larger one is than the other	L5	L3	L5
Perform operations with numbers expressed in scientific notation	L6	L3	L6
Graph proportional relationships and compare relationships represented in different ways	L7	L4	L7

Grade 8					
Skill	Instruction Coach Lesson(s)	Support Coach Lesson(s)	Performance Coach Lesson(s)		
Use similar triangles to explain why the slope <i>m</i> is the same between any two distinct points on a non-vertical line in a coordinate plane	L8	L5	L8		
Give examples of linear equations in one variable with no solution	L9	L6	L9		
Solve linear equations with rational number coefficients	L9	L6	L9		
Understand that points of intersection on a graph represents a solution to a system of linear equations	L10, L11, L12	L7	L10		
Solve systems of two linear equations in two variables algebraically	L10, L11, L12	L7	L11		
Solve real-world problems leading to two linear equations in two variables	L10, L11, L12	L7	L11		
Functions					
Identify functions	L13	L8	L12		
Compare properties of two functions that are represented in different ways	L14	L9	L13		
Identify linear functions with equation $y = mx + b$	L15	L8	L14		
Construct a function to model a linear relationship between two quantities and interpret rate of change and initial value in terms of situation	L16	L8	L15		
Qualitatively describe the functional relationship between two quantities by analyzing a graph	L17	L9	L16		

Grade 8					
Skill	Instruction Coach Lesson(s)	Support Coach Lesson(s)	Performance Coach Lesson(s)		
Geometry					
Lines are taken to lines of the same length	L18	L10, L11, L12	L17, L18, L19		
Angles are taken to angles of the same measure	L18	L10, L11, L12	L17, L18, L19		
Parallel lines are taken to parallel lines	L18	L10, L11, L12	L17, L18, L19		
Describe a sequence of transformation that exhibits the congruence between two figures	L19	L10, L11, L12, L14	L17, L18, L19, L21		
Describe the effects of dilations, rotations, translations and reflections on 2D figures using coordinates	L20, L21	L10, L11, L12, L13	L17-L21		
Describe a sequence that exhibits the congruence between two figures	L22	L14	L21		
Informally establish facts about angle sums	L23, L24	L15	L22, L23		
Explain a proof of the Pythagorean Theorem	L25	L16	L24		
Apply the Pythagorean Theorem to determine unknown side lengths in right triangles	L26	L16	L24		
Apply the Pythagorean Theorem to find the distance between two points in a coordinate system	L27	L16	L25		
Know formula for volume of cylinders and spheres	L28	L17	L26		

Grade 8					
Skill	Instruction Coach Lesson(s)	Support Coach Lesson(s)	Performance Coach Lesson(s)		
Statistics & Probability					
Construct and interpret scatter plots and describe patterns of association	L29	L18	L27		
Draw and interpret line of best fit	L30	L19	L27		
Use the equation of a linear model to interpret slope and intercept	L31	L20	L28		
Construct and interpret a two-way table	L32		L29		

Using the Pacing Guide

You can use the Math Pacing Guide that follows to plan the delivery of the curriculum over the school year. There are several assumptions built into the Pacing Guide:

- Priority content requires more time to teach. More time has been allotted in the Pacing Guide for lessons that teach the priority content for your grade level. This will allow you more time to differentiate, go deeper into those topics, and allow students to see the priority standards from different perspectives.
- The Pacing Guide is designed for a 33-week school year. If your school year is longer or shorter than 33 weeks, you can make adjustments for the difference.
- Time is included for review and assessment. Review time is scheduled for each domain and for the end of the year.
- Curriculum mapping decisions should be flexible. The sequence of topics is designed to address all the content of the grade level, but you can re-sequence the content to agree with the curriculum maps used in your state or district. Just remember to allow the amount of time for each lesson that is suggested in the Pacing Guide.
- Each day is planned around a 40-minute session. The suggested times for the core lesson and the differentiation options will vary, but the sum is always 40 minutes. If your class sessions are longer or shorter than 40 minutes, plan accordingly.

Day 1	Day 2	Day 3	Day 4	Day 5
Domain 1: Ratios and Pro	oportional Relationships			
Instruction Coach Lesson 1: Understanding Ratios 0: Facher's Manual pp. 18-19: 20 min. 2: EL Adaptations Lesson 1 Before the Lesson Sak students to makeurs tak students to makeurs attain the classroom (tables s. chairs) and outside of the classroom (e.g., states statring with letter A, sw. with he letter N, Speak of the ratio of the two numbers 4 to 20, tables to chairs). DIFFERENTIATION OPTIONS 9: Support Coach Teacher's Manual pp. 26-27 PLUS M: Build Background. 20 min. 9: Performance Coach Teacher's Edition pp. 2-3 with Getting the Idea section 20 min. 9: Readiness	Instruction Coach Lesson 1: Inderstanding Ratios I. Teacher's Manual pp. 18–157:20 min. E. L. Adaptations Lesson 1 Meaning of Ratio Pay attention (pronuclation, spelling, melan) Bafore the Lesson as an important way to explain concept and language. Add examples. Alert students to Glossary. DIFFERENTIATION OPTIONS - Support Coach Teacher's Manut: Ratif Background. 20 min. Performance Scale Teacher's Edition pp. 2–3 with Examples I-2 of Student Edition p. 7. 20 min.	Instruction Coach Lesson 1: Inderstanding Ratios pp. 18–19: 20 min. = EL Adaptations Lesson 1 Understand-Connect Continue with concept and application of rate, making whole to-part is understood. DIFFERENTIATION OPTIONS - Support Coach Teacher's Manual pp. 28–27 Art PLUG IIK. Model Application. 20 min. - Performance Coach Teacher's Edition pp. 2–3 with Example and Cacher's Edition pp. 8–20 min. • Readiness	Instruction Coach Resson 1: Inderstanding Pailos I Taccher's Manual pp. 18–19: 25 min. EL Adaptations Lesson 1 Practice Begin Practice with full class Constructions are clear. Go over the main instructions in the rest of Practice to insure full understanding. Note Observation and Action on the bottom of p. 27 of Common Core Support Coach Teacher's Manual pp. 28–27 PALOS IM Practice and Assess. 15 min. Performance Coach Teacher's Manual pp. 28–20 PLUG INE Practice Coach Teacher's Manual p. 28–20 PLUG INE Practice and Assess. 15 min. Performance Coach Teacher's Manual p. 28–20 PLUG INE Practice Support Coach Teacher's Manual p. 28–20 PLUG INE Practice and Assess. 15 min. Performance Coach Teacher's Edition pp. 9–12. 15 min as a time permits.	Instruction Coach Instruction Coach Lesson 2: Understanding Unit Rates P. 20-21; 20 min. EL Adaptations Lesson 2 Introduce Unit Rate Review the concept of ratio. Base the Before the Lesson 2 Sas the Before the Lesson 2 Base the Before the Lesson 2 Hart students to Glossary. Pay especial attention to the sagence of the Sustain 2 Pay especial attention to the Sas of the Before the Casson 2 Hart students to Glossary. Pay especial attention to the Sas of Casher Students' Invessuch Base 2 Support Coach Teacher's Manual. DIFFERENTIATION OPTIONS Support Coach Facher 5 Manual. Performance Coach Saston 6 Support Coach 6 Teacher's Manual p. 34-35 kor PLUG IV Building Background; 20 min Performance Coach Support Coach 6 Teacher's Manual P. Support Coach 6 Teacher's Manual P. Support Coach 6 Teacher's Manual P. Support Coach 6 Teacher's Manual P. Support Coach 7 Teacher's Manual P. Support 7 Teac
Goal Ratios and Rates	1	1	1	► Goal Ratios and Rates

Sample page from the Pacing Guide





Day 2

Day 3



Domain 1: The Number System

LESSON FOCUS Instruction Coach Lesson 1: Understanding

Rational and Irrational Numbers

- Student Edition p. 6; 20 min.
- Teacher's Manual pp. 18–19
- EL Adaptations Lesson 1

Before the Lesson Review the different sets of numbers-whole numbers. integers, rational numbers, and irrational numbers. Explain how each set is related to each other. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 2–3 PLUG IN: Build Background, 20 min.
- Performance Coach **Teacher's Edition** pp. 2–3, with Getting the Idea section of Student Edition p. 6, 20 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 1: Understanding **Rational and Irrational**

• Student Edition

Numbers

- pp. 6–7; 30 min. • Teacher's Manual pp. 18–19
- EL Adaptations Lesson 1

Understand-Connect Explain the definitions of the different sets of numbers. Expand on the diagram of the set of *real numbers* shown on the UNDERSTAND page. You can add additional examples that explain the language of the number systems.

DIFFERENTIATION OPTIONS

- Support Coach **Teacher's Manual** pp. 2–3, PLUG IN: Introduce and Model, 10 min.
- Performance Coach **Teacher's Edition** pp. 2-3, with Examples 1-4and 8 from Student Edition pp. 6–7. 10 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 1: Understanding **Rational and Irrational** Numbers

- Student Edition pp. 8–9; 30 min.
- Teacher's Manual pp. 18–19
- EL Adaptations Lesson 1

Example A. Example B. and Example C See EL note on p. 2 of Support Coach Teacher's Manual. Explain the connection between decimals and fractions. Review the solving of equations. Help students get started with DISCUSS. bottom of Example C.

DIFFERENTIATION OPTIONS

- Support Coach **Teacher's Manual** pp. 4–5, POWER UP: Introduce and Model. 10 min.
- Performance Coach **Teacher's Edition**

pp. 2–3, with Examples 5–7 and Coached Example from Student Edition pp. 7–9. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 1: Understanding Rational and Irrational

Day 4

- Numbers • Student Edition
- pp. 10-11; 30 min. • Teacher's Manual
- pp. 18–19
- EL Adaptations Lesson 1

Practice

See EL note on p. 4 of Support Coach Teacher's Manual. Make sure each section of Practice is clear.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 6–7. READY TO GO: Practice and Assess 10 min
- Performance Coach **Teacher's Edition**

pp. 2–3, with Practice section of Student Edition pp. 10–13. 10 min or as time permits.

Readiness

LESSON FOCUS Instruction Coach

Lesson 2: Estimating the Value of Irrational Expressions

- Student Edition p. 12; 20 min.
- Teacher's Manual pp. 20–21
- EL Adaptations Lesson 2

Before the Lesson Briefly review the concepts from Lesson 1. Then carefully explain the discussion about why the squares of 2 and 3 are the two integers that will get the approximation started in the Before The Lesson.

Choosing the right integers to approximate can save a great deal of time. Calculators are essential throughout this Lesson. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

 Support Coach **Teacher's Manual**

pp. 8–9, READY TO GO: Build Background, 20 min.

 Performance Coach **Teacher's Edition**

pp. 4–5, with Getting the Idea section of Student Edition p. 14. 20 min.

- Readiness
- ► **Goal** Approximations of Irrational Numbers

Waggle

► Goal Rational and Irrational Numbers

Day 1



Day 5

Domain 1: The Number System

LESSON FOCUS Instruction Coach Lesson 2: Estimati

Lesson 2: Estimating the Value of Irrational Expressions

- Student Edition pp.12; 25min.
- Teacher's Manual pp. 20–21
- EL Adaptations Lesson 2

Understand

Carefully explain the discussion in Connect about why the squares of 3.4 and 3.5 were chosen in the Before The Lesson. Choosing the right decimals to approximate can save a great deal of time. Calculators are essential.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 8–9, READY TO GO: Introduce and Model. 15 min.
- Performance Coach Teacher's Edition

pp. 4–5, with Examples section of Student Edition pp. 14–15. 15 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 2: Estimating the Value of Irrational Expressions

Student Edition pp.13; 25 min.
Teacher's Manual

Day 2

- pp. 20–21
- EL Adaptations Lesson 2

Connect Discuss why 2 and 3 are chosen; also discuss why the sequence in Step 2 begins with 2.6. Make sure all language here is clear. See useful EL note on p. 6 of *Support Coach Teacher's Manual.*

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 8–9, READY TO GO: Work

- Together (A, B). 15 min.
 Performance Coach Teacher's Edition
- pp. 4–5, with Examples section and Coached Example of Student Edition pp. 16–18.
- 15 min. • Readiness
- NCaumess

LESSON FOCUS Instruction Coach Lesson 2: Estimating the Value of Irrational Expressions

Day 3

- Student Edition pp. 14–15; 30 min.
- Teacher's Manual pp. 20–21
- EL Adaptations Lesson 2

Practice

Begin Practice by explaining what is required for each section. Use your calculator as often as you need to. The Observation–Action chart on SE p. 9 should help detect problems and help solve them.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 10–11, READY TO GO: Support Independent Practice. Extra challenges: see Questions 18 and 19 on p. 15 of Instruction Coach Student Edition. 10 min.

• Performance Coach Teacher's Edition

pp. 4–5, with Practice section of Student Edition pp. 19–22. 10 min or as time permits.

Readiness

REVIEW AND ASSESS Instruction Coach Domain 1 Review

• Student Edition pp. 16–17; 40 min.

Day 4

• Teacher's Manual

Review Part 1 Go over the Questions 1–20 and discuss. Ask students to take a look at instructions for the first half of the Review on SE pp. 16–17. Make sure all instructions are clear.

See Progression Chart on TM pp. 16–17 for a view of progressions connecting the lessons of Domain 1.

DIFFERENTIATION OPTIONS

• Performance Coach Teacher's Edition p. 6. with Domain 1 Review

section of Student Edition pp. 23–25 as time permits.

REVIEW AND ASSESS Instruction Coach Domain 1 Review

- Student Edition pp. 18–19; 40 min.
- Teacher's Manual p. 91

Review Part 2 and Performance Task Go over Ouestions 21–34 and discuss. Pay special attention to the Performance Task on SE p. 19. Ask students to take a look at instructions for the second half of the Review, Questions 21-34 on SE p. 18. In particular, clarify any doubts with respect to Performance Task (Approximating Circumference) on p. 19. See Progression Chart on TM pp. 16–17 for a view of progressions connecting the lessons of Domain 1.

DIFFERENTIATION OPTIONS

Extra challenge: Questions 33 and 34 on p 18 of Instruction Coach Student Edition.

 Performance Coach Teacher's Edition

p. 6, with Domain 1 Review section of Student Edition pp. 26–28 as time permits.

Waggle

► Goal Exponents and Roots



Day 1







Day 5

Domain 1

Domain 2: Expressions and Equations

REVIEW AND ASSESS Instruction Coach Domain 1 Assessment

- Assessments pp. 4–11; 40 min.
- Assessments Answer Key pp. 4–5

Assessment

Have students complete Questions 1–20. Provide extra time for assessments and provide readers to read word problems to students.

DIFFERENTIATION OPTIONS

Provide extra time and assistance for students who qualify. Since Domain 1 is only two lessons, Domain 1 Assessment is short and takes only one day. All other Domain Assessments take two days.

LESSON FOCUS Instruction Coach

Lesson 3: Applying Properties of Exponents

- Student Edition
- p. 22; 25 min.
 Teacher's Manual pp. 24–25
- EL Adaptations Lesson 3

Before the Lesson Make sure to reinforce the two words base and exponent asking students to show examples of each one. Introduce top example of UNDERSTAND section.

DIFFERENTIATION OPTIONS

Understanding

Exponentiation Break down all exponential expressions to their meaning, e.g., $7^3 =$ $7 \times 7 \times 7$; and start with repeated multiplication to write an exponential expression, e.g., $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 2^6$. 15 min.

 Performance Coach Teacher's Edition

pp. 8–9, with Getting the Idea section of Student Edition p. 30 before the grey boxes. 15 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 3: Applying Properties of Exponents

- Student Edition p. 22; 30 min.
- Teacher's Manual pp. 24–25
- EL Adaptations Lesson 3

Understand Finish UNDERSTAND, SE p. 22.

DIFFERENTIATION OPTIONS

Exponent Expression Cards

Hand out index cards with a variety of exercises about positive and negative exponents, working both ways from expression to multiplication/division and reverse. If these are ordered in some way by difficulty then they can serve to advance students from easier to more difficult computations and understandings. 10 min.

• Performance Coach Teacher's Edition

pp. 8–9, with Student Edition pp. 30–31 grey boxes and examples 1–2. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 3: Applying Properties of Exponents

- Student Edition p. 23; 25 min.
- Teacher's Manual pp. 24–25
- EL Adaptations Lesson 3

Connect The Connect page shows the rules of multiplying and dividing two exponential expressions that have the same bases. Explain these carefully.

DIFFERENTIATION OPTIONS

Exponent Expression Cards Hand out index cards with a variety of exercises applying the rules for multiplying and dividing exponential expressions. If ordered in some way by difficulty then these cards can serve to advance students from easier to more difficult computations and understandings. 15 min.

 Performance Coach Teacher's Edition

pp. 8–9, with Student Edition pp. 32–35 grey boxes and examples 3–7. 15 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 3: Applying

Properties of Exponents

- Student Edition pp. 24–25; 30 min.
- Teacher's Manual pp. 24–25
- EL Adaptations Lesson 3

Practice

Every section here needs to be clearly understood even if the problems look simple. They are not.

DIFFERENTIATION OPTIONS

Check Understanding

Choose odd questions and ask students to explain how they got their answers to these. This will allow for an opportunity to see how much understanding students have of what looks like a set of easy questions. Extra challenge: Questions 27 and 28. p. 25 of *Instruction Coach Student Edition*. 10 min.

• Performance Coach Teacher's Edition

pp. 8–9, with Lesson Practice of Student Edition pp. 38–41. 10 min or as time permits.

• Readiness

Waggle

► Goal Exponents and Roots

Day 1

Day 2

Day 3

Day 4

Day 5

Week

LESSON FOCUS Instruction Coach

Lesson 4: Understanding Square and Cube Roots

- Student Edition p. 26; 25 min.
- Teacher's Manual pp. 26–27
- EL Adaptations Lesson 4

Before the Lesson

Make sure students are acquainted with square roots of numbers; review square roots of square numbers so they have a feeling for inverses. See Before the Lesson. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 10–11, PLUG IN: Build Background. 15 min.
- Performance Coach Teacher's Edition pp. 10–11 with "Getting the Idea" section of Student Edition p. 42. 15 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 4: Understanding Square and Cube Roots

- Student Edition p. 26; 25 min.
- Teacher's Manual pp. 26–27
- EL Adaptations Lesson 4

Understand

Go over critical vocabulary and distinguish between *principal square root* and *square root*. Alert students to the Glossary where they can find definitions of all words used in the lessons.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 12–13, POWER UP: Build Background. 15 min.
- Performance Coach Teacher's Edition pp. 10–11, with Examples 1–2 of Student Edition
- pp. 42–43. 15 min.
- Readiness

- LESSON FOCUS Instruction Coach Lesson 4: Understanding Square and Cube Roots
- Student Edition p. 27; 25 min.
- Teacher's Manual pp. 26–27
- EL Adaptations Lesson 4

Connect

Move through each of the first two steps at the top carefully; repeat the same steps with another example. Do the same with the cubic equation.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 12–13, POWER UP: Introduce and Model. 15 min.

 Performance Coach Teacher's Edition

pp. 10–11, with Examples 3–6 of Student Edition pp. 44–47. 15 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 4: Understanding Square and Cube Roots

- Student Edition pp. 28–29; 30 min.
- Teacher's Manual pp. 26–27
- EL Adaptations Lesson 4

Practice

It is important to read these questions to students so that each one is clear and understood before students get started. A designated appropriate reader among the students might work.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual

pp. 14–17, READY TO GO: Support Independent Practice (1–8). Extra challenge: Questions 30 and 31 on p. 29 of Instruction Coach Student Edition.10 min.

• Performance Coach Teacher's Edition

pp. 10–11 with Lesson Practice of Student Edition pp. 48–51. 10 min or as time permits.

Readiness

LESSON FOCUS Instruction Coach Lesson 5: Scientific Notation

- Student Edition p. 30; 25 min.
- Teacher's Manual pp. 28–29
- EL Adaptations Lesson 5

Before the Lesson Accent powers of 10 (positive and negative exponents) and their decimal representation with examples. Make sure the vocabulary is understood. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual

pp. 18–19, PLUG IN: Build Background. 15 min.

• Performance Coach Teacher's Edition

pp. 12–13 with Getting the Idea section of Student Edition p. 52. 15 min.

• Readiness

Waggle

► Goal Rational and Irrational Numbers

► Goal Exponents and Roots

► Goal Scientific Notation



Day 1

Day 2





Domain 2: Expressions and Equations

LESSON FOCUS Instruction Coach Lesson 5: Scientific Notation

- Student Edition p. 30; 30 min.
- Teacher's Manual pp. 28–29
- EL Adaptations Lesson 5

Understand

The essence of scientific notation is explained here, so walk through each step, even reading what is on this page and expanding on the main points. Review *coefficient*. Add further examples as necessary.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 20–21, POWER UP: Model Application (A). 10 min.
- Performance Coach Teacher's Edition pp. 12–13, with Examples 1–3 of Student Edition pp. 52–53. 10 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 5: Scientific Notation

- Student Edition p.31; 20 min.
- Teacher's Manual pp. 28–29
- EL Adaptations Lesson 5

Connect

Make sure these word problems are clear, and students understand what needs to be done. This page deals with *how many times as* in comparisons, and introduces dividing two numbers in scientific notation (see Lesson 6). See advice on EL, p. 21 of *Support Coach Teacher's Manual.*

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 20–21, POWER UP: Model Application (B). 20 min.
- Performance Coach Teacher's Edition pp. 12–13, with Examples 4–6 of Student Edition pp. 54–55, 20 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 5: Scientific Notation

Notation

- Student Edition pp. 32–33; 30 min.
- Teacher's Manual pp. 28–29
- EL Adaptations Lesson 5

Practice

You may want to ask students to do the Practice in stages, reviewing each section before moving forward. See advice on EL, p. 23 of Support Coach Teacher's Manual.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 20–21, POWER UP: Practice and Assess. Extra challenge: see Questions 23 and 24 on p. 33 of Instruction Coach Student Edition. 10 min.
- Performance Coach Teacher's Edition

pp. 12–13, with Lesson Practice of Student Edition pp. 56–59. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 6: Using Scientific Notation

Day 4

- Student Edition p. 34; 20 min.
- Teacher's Manual pp. 30–31
- EL Adaptations Lesson 6

Example A and Example B See Before the Lesson for advice on reviewing properties, as they are used when multiplying and dividing. See Example A for an application. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 22–25, READY TO GO: Build Background. 20 min.
- Performance Coach Teacher's Edition pp. 14–15, with Getting the

Idea section of Student Edition and Examples 1–2 pp. 60–61. 20 min.

Goal Scientific Notation

• Readiness

LESSON FOCUS Instruction Coach

Lesson 6: Using Scientific Notation

- Student Edition p. 35; 25 min.
- Teacher's Manual pp. 30–31
- EL Adaptations Lesson 6

Example C and Example D Notice the use of a calculator in Examples C and D. Students should be encouraged to use them. Make sure they can read answers.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 22–25, READY TO GO: Work Together (A). 15 min.

• Performance Coach Teacher's Edition

pp. 14–15, of Student Edition with Examples 3–6 pp. 62– 64. 15 min.

Readiness

Waggle

► Goal Scientific Notation

Day 1



Day 5

Domain 2: Expressions and Equations

LESSON FOCUS Instruction Coach

Lesson 6: Using Scientific Notation

- Student Edition p. 36; 25 min.
- Teacher's Manual pp. 30–31
- EL Adaptations Lesson 6

Example E

Check to see if students can look at a number in *scientific notation* and interpret it as being less than or greater than a fixed number such as 1,000,000.

DIFFERENTIATION OPTIONS

 Support Coach Teacher's Manual pp. 22–25, READY TO GO: Work Together (B). 15 min.

• Performance Coach Teacher's Edition

pp. 14–15, with Coached Example from Student Edition p. 64. 15 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 6: Using Scientific Notation

Day 2

- Student Edition p. 37; 25 min.
- Teacher's Manual pp. 30–31
- EL Adaptations Lesson 6

Problem Solving Read the problem to students and make sure each step is clear. See p. 24 of *Support Coach Teacher's Manual* for a useful advice for EL.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 22–25, READY TO GO: Problem Solving. 15 min.

• Performance Coach Teacher's Edition

pp. 14–15, with Lesson Practice problems 1–7 from Student Edition pp. 65–66. 15 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 6: Using Scientific Notation

Day 3

- Student Edition pp. 38–39; 25 min.
- Teacher's Manual pp. 30–31
- EL Adaptations Lesson 6

Practice

Be sure that when students write a product or quotient in scientific notation, that they write the decimal part as a number between 1 and 10.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 22–25, READY TO GO: Support Independent Practice (1–6). Extra challenges: see Questions 22 and 23 on p. 39 of Instruction Coach Student Edition. 15 min.

• Performance Coach Teacher's Edition

pp. 14–15, with Lesson Practice problems 8–12 from Student Edition pp. 67–68. 15 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach

Lesson 7: Representing and Interpreting Proportional Relationships

Day 4

- Student Edition p.40; 20 min.
- Teacher's Manual pp. 32–33
- EL Adaptations Lesson 7

Understand

Check out the word list on p. 32 of *Instruction Coach Teacher's Manual* to make sure students understand each word.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual pp. 26-27, PLUG IN: Mode

pp. 26–27, PLUG IN: Model and Application (A). 20 min.

• Performance Coach Teacher's Edition

pp. 16–17, with Getting the Idea section and Examples 1–2 of Student Edition pp. 69–71. 20 min.

Readiness

LESSON FOCUS

Lesson 7: Representing and Interpreting Proportional Relationships

- Student Edition p. 41; 20 min.
- Teacher's Manual pp. 32–33
- EL Adaptations Lesson 7

Connect

Review each word of the word list on p. 32 of *Instruction Coach Teacher's Manual.*

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 26–27, PLUG IN: Model and Application (B). 20 min.

• Performance Coach Teacher's Edition

pp. 16–17, with Examples 3–5 of Student Edition pp. 72–74. 20 min.

• Readiness

Waggle

► Goal Scientific Notation

► **Goal** Proportional Relationships and Slope



Day 5



Day 2





Domain 2: Expressions and Equations

LESSON FOCUS

Lesson 7: Representing and Interpreting Proportional

Relationships

- Student Edition p. 42; 25 min.
- Teacher's Manual pp. 32–33
- EL Adaptations Lesson 7

Example A

See p. 26 of *Support Coach Teacher's Manual* for a useful tip on slope.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 28–29, POWER UP: Model and Application (A). 15 min.
- Performance Coach Teacher's Edition pp. 16–17, with Examples 6–7 of Student Edition pp. 75–76. 15 min.
- Readiness

LESSON FOCUS Instruction Coach

Lesson 7: Representing and Interpreting Proportional Relationships

- Student Edition p. 43; 30 min.
 Teacher's Manual
- pp. 32–33
- EL Adaptations Lesson 7

Example B

To illustrate the data more vividly, ask students to draw a graph for the cost of gasoline. Ask students to look at the graph and answer the question of the example.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 28–29, POWER UP: Model and Application (B). 10 min.
- Performance Coach Teacher's Edition pp. 16–17, with Coached Example of Student Edition p. 77, 10 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 7: Representing and

Interpreting Proportional Relationships

- Student Edition pp. 44–45; 30 min.
- Teacher's Manual
- EL Adaptations Lesson 7

Practice

Explain all parts of Practice and work out questions that are not clear to students. You can always use a Practice to diagnose progress and difficulties.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 28–29, POWER UP: Practice and Assess. Extra challenge: Question 8 on p. 45 of Instruction Coach Student Edition, 10 min.
- Performance Coach Teacher's Edition

pp. 16–17, with Lesson Practice of Student Edition pp. 78–81. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach

Lesson 8: Relating Slope and y-intercept to Linear Equations

Day 4

- Student Edition p. 46; 25 min.
- Teacher's Manual pp. 34–35
- EL Adaptations Lesson 8

Understand

Go over all steps slowly and carefully as there is much here. Make sure the idea of the difference in *y* values divided by the difference in *x* values makes sense in terms of rate of change.

DIFFERENTIATION OPTIONS

 Support Coach Teacher's Manual
 DOWED 1

pp. 36–37, POWER UP: Introduce and Model. 15 min.

- Performance Coach Teacher's Edition pp. 18–19, with Getting the Idea section of Student Edition p. 82, 15 min.
- Readiness

LESSON FOCUS

Lesson 8: Relating Slope and y-intercept to Linear Equations

- Student Edition p. 47; 25 min.
- Teacher's Manual pp. 34–35
- EL Adaptations Lesson 8

Connect

Ask: What is *slope* of a line? Explain that it is equal to the constant of proportionality or rate of change. See advice for EL on p. 34 of *Support Coach Teacher's Manual.*

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 36–37, POWER UP: Model Application (A). 15 min.
- Performance Coach Teacher's Edition pp. 18–19, with Examples

pp. 18–19, with Examples 1–2 of Student Edition pp. 83–85. 15 min.

• Readiness

Waggle

► Goal Proportional Relationships and Slope

► Goal Proportional Relationships and Slope

LESSON FO

Day 1



Day 5

Domain 2: Expressions and Equations

LESSON FOCUS

Lesson 8: Relating Slope and y-intercept to Linear Equations

- Student Edition p. 48; 25 min.
- Teacher's Manual pp. 34–35
- EL Adaptations Lesson 8

Example

See p. 36 of *Support Coach Teacher's Manual* for a useful tip for EL.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 36–37, POWER UP: Model Application (B). 15 min.
- Performance Coach Teacher's Edition

pp. 18–19, with Examples 3–4 of Student Edition pp.85–86. 15 min.

• Readiness

Instruction Coach Lesson 8: Relating Slope and y-intercept to Linear Equations • Student Edition

LESSON FOCUS

Student Edition p. 49; 30 min.
Teacher's Manual pp. 34–35

Day 2

• EL Adaptations Lesson 8

Problem Solving Remind students of the 4-step process for solving problems. See p. 38 of *Support Coach Teacher's Manual* for a useful tip for EL.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 38–41, READY TO GO: Problem Solving. 10 min.

• Performance Coach Teacher's Edition pp. 18–19, with Coached

Example of Student Edition p. 87. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 8: Relating Slope and y-intercept to Linear Equations

Day 3

- Student Edition pp. 50–51; 30 min.
- Teacher's Manual pp. 34–35
- EL Adaptations Lesson 8

Practice

Each section asks different questions, so be prepared to instruct students on what is coming for each section of Practice.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 38–41, READY TO GO: Practice and Assess. Extra challenge: p. 51, Questions 15 and 16 of Instruction Coach Student Edition. 10 min.

Performance Coach Teacher's Edition

pp. 18–19, with Lesson Practice section of Student Edition pp. 88–91. 10 min or as time permits.

Readiness

LESSON FOCUS Instruction Coach Lesson 9: Solving Equations in One Variable

Day 4

- Student Edition p. 52; 20 min.
- Teacher's Manual pp. 35–36
- EL Adaptations Lesson 9

Before the Lesson This time solving takes two steps, so show examples of one-step and two-step solutions so this difference is clear. There are often a few preliminary steps that are not counted, such as combining like terms, or rearranging terms. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 44–45, POWER UP: Build Background. 20 min.

 Performance Coach Teacher's Edition

pp. 20–21, with Getting the Idea section of Student Edition p. 92. 20 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 9: Solving Equations

- in One Variable
 Student Edition p. 52; 30 min.
- Teacher's Manual pp. 35–36
- EL Adaptations Lesson 9

Understand Before any solving takes place, equations have to be simplified. Ask: 'What are *like terms*?' Help students follow the string of steps on the way to the solution.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 44–45, POWER UP: Introduce and Model. 10 min.

Performance Coach Teacher's Edition

pp. 20–21, with Examples 1–2 of Student Edition pp. 92–94. 10 min.

• Readiness

Waggle

► Goal Proportional Relationships and Slope

► Goal Solve Linear Equations





Day 2



Day 4



Domain 2: Expressions and Equations

LESSON FOCUS Instruction Coach

Lesson 9: Solving Equations in One Variable

- Student Edition p. 53; 25 min.
- Teacher's Manual pp. 35–36
- EL Adaptations Lesson 9

Connect

See p. 44 of *Support Coach Teacher's Manual* for useful EL advice. There are two separate equations to solve here, both dealing with simplifying and combining terms. At the end, there are surprises in both cases – one equation has infinitely many solutions; and a second equation has no solution. Explain how this comes about.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 44–45, POWER UP: Model Application (A, B). 15 min.
- Performance Coach Teacher's Edition pp. 20–21, with Examples 3–5 of Student Edition pp. 94–96. 15 min.
- Readiness

Waggle

► Goal Solve Linear Equations

LESSON FOCUS Instruction Coach

Lesson 9: Solving Equations in One Variable

- Student Edition pp. 54–55; 30 min.
- Teacher's Manual pp. 35–36
- EL Adaptations Lesson 9

Practice

Have students do a section at a time, and then review their work before moving forward to the next section.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 44–45, POWER UP:

Practice and Assess. Extra challenge: Questions 15 and 16 on p. 55 of Instruction Coach Student Edition. 10 min.

 Performance Coach Teacher's Edition

pp. 20–21, with Lesson Practice section of Student Edition pp. 97–100. 10 min or as time permits.

• Readiness

- Instruction Coach Lesson 10: Solving Systems of Two Linear Equations Graphically
- Student Edition p. 56; 30 min.

LESSON FOCUS

- Teacher's Manual pp. 38–39
- EL Adaptations Lesson 10

Understand

Warn students that there may not be any solution, or possibly, an infinite number of solutions. See p. 50 of *Support Coach Teacher's Manual for Spotlight on Mathematical Practices*, which is good advice for all students. Remember, two equations intersecting means an ordered pair, not a single number. Explain the concept of coincident lines.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 50–51, PLUG IN: Build Background. 10 min.
- Performance Coach Teacher's Edition pp. 22–23, with Getting the Idea section of Student Edition p. 101, 10 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 10: Solving Systems of Two Linear Equations Graphically

- Student Edition p. 57; 30 min.
- Teacher's Manual pp. 38–39
- EL Adaptations Lesson 10

Connect

Advise students that it is a good idea to check the solution. See p. 51 of Support Coach Teacher's Manual for useful EL advice.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 50–51, PLUG IN: Introduce Concepts and Vocabulary, 10 min.
- Performance Coach Teacher's Edition

pp. 22–23, with Example 1 of Student Edition pp. 101–102. 10 min.

• Readiness

LESSON FOCUS

Lesson 10: Solving Systems of Two Linear Equations Graphically

- Student Edition p. 58; 30 min.
- Teacher's Manual pp. 38–39
- EL Adaptations Lesson 10

Example A

Show students each step of Example A, and explain why there is no solution.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 50–51, PLUG IN: Model
- Application (A). 10 min.
 Performance Coach Teacher's Edition

pp. 22–23, with Example 2 of Student Edition pp. 102–103. 10 min.

• Readiness

Day 1

Week 10

Day 5

Domain 2: Expressions and Equations

LESSON FOCUS

Lesson 10: Solving Systems of Two Linear Equations Graphically

- Student Edition p. 59; 30 min.
- Teacher's Manual pp. 38–39
- EL Adaptations Lesson 10

Example **B**

Show students each step of Example B, and explain why there are infinitely many solutions.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 50–51, PLUG IN: Model Application (A). 10 min.

• Performance Coach Teacher's Edition pp. 22–23, with Example 3 of Student Edition p. 104. 10 min.

• Readiness

Waggle^{**}

LESSON FOCUS Instruction Coach Lesson 10: Solving Systems of Two Linear Equations Graphically

Day 2

- Student Edition pp. 60–61; 30 min.
 Teacher's Manual
- Teacher's Manual pp. 38–39
- EL Adaptations Lesson 10

Practice Ask students to work out answers to each section, then go over that section and answer the questions. Then move to the next section.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual
- pp. 50–51, PLUG IN: Practice and Assess. Extra challenge: Question 19 on p. 61 of Instruction Coach Student Edition. 10 min.

• Performance Coach Teacher's Edition pp. 22–23, with Lesson

Practice of Student Edition pp.106–108. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 11: Solving Systems of Two Linear Equations Algebraically

Day 3

- Student Edition p. 62; 25 min.
- Teacher's Manual pp. 40–41
- EL Adaptations Lesson 11

Example A To understand how to solve

a system of equations, students will have to be very careful as there are many steps involved. Carefully show each step of Example A.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 52–53, POWER UP: Build Background. 15 min.
- Performance Coach Teacher's Edition pp. 24–25, with Example 2 of Student Edition pp. 110–111. 15 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 11: Solving Systems of Two Linear Equations Algebraically

Day 4

- Student Edition p. 63; 25 min.
- Teacher's Manual pp. 40–41
- EL Adaptations Lesson 11

Example B The method of both

Example A and Example B is the same, called *elimination*, meaning eliminating a variable.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 52–53, POWER UP: Introduce and Model, 15 min.
- Performance Coach Teacher's Edition

pp. 24–25, with Example 3 of Student Edition pp. 111–112. 15 min.

Readiness

LESSON FOCUS Instruction Coach Lesson 11: Solving Systems

of Two Linear Equations Algebraically

- Student Edition p. 64; 25 min.
- Teacher's Manual pp. 40–41
- EL Adaptations Lesson 11

Example C

Another way to solve a system is by substitution, and students need to understand how to do both methods. Make sure students practice with a variety of equations.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 52–53, POWER UP: Model Application (A). 15 min.

• Performance Coach Teacher's Edition pp. 24–25, with Getting the

Idea section and Example 1 of Student Edition pp. 109–110. 15 min.

• Readiness

► Goal Systems of Equations



Day 1

Day 2



Day 5

Domain 2: Expressions and Equations

LESSON FOCUS Instruction Coach

Lesson 11: Solving Systems of Two Linear Equations Algebraically

- Student Edition p.25; 25 min.
- Teacher's Manual pp. 40–41
- EL Adaptations Lesson 11

Example D

Advise students: Do not rush through this example as it is tricky. Help students throughout this example, step by step.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 52–53, POWER UP: Model Application (B). 15 min.
- Performance Coach Teacher's Edition pp. 24–25, with Examples 4–5

of Student Edition pp. 113– 114. 15 min.

• Readiness

LESSON FOCUS Instruction Coach

Lesson 11: Solving Systems of Two Linear Equations Algebraically

- Student Edition pp. 66–67; 30 min.
- Teacher's Manual pp. 40–41
- EL Adaptations Lesson 11

Practice

Advise students: Do not rush through these questions and try to make sure that all work is done carefully as there are many opportunities for error.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 52–53, POWER UP: Build Background. Extra challenge: Ouestions 15 and 16 on p. 67

of Instruction Coach Student Edition. 10 min. • Performance Coach

Teacher's Edition

pp. 24–25, with Lesson Practice of Student Edition pp. 116–120. 10 min or as time permits.

• Readiness

Instruction Coach Lesson 12: Problem Solving: Using Systems of Equations

- Teacher's Manual
- pp. 42–43

LESSON FOCUS

• EL Adaptations Lesson 12

Before the Lesson Go over the ways to solve systems of equations. (See Lessons 10 and 11.) Review with examples, again asking students to be careful with the variety of moves necessary that can easily lead to error.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 54–57, READY TO GO: Build Background, 20 min.
- Performance Coach Teacher's Edition pp. 24–25, with Lesson

Practice of Student Edition pp. 116–120. 20 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 12: Problem Solving: Using Systems of Equations

Day 4

- Student Edition p. 68; 30 min.
- Teacher's Manual pp. 42–43
- EL Adaptations Lesson 12

Nina's Wallet

Help with the writing of the equations after students understand what needs to be done to find a solution to the problem. Then help solving the equations making each step clear.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 54–57, READY TO GO: Introduce and Model, 10 min.
- Performance Coach Teacher's Edition pp. 24–25, with Lesson

Practice of Student Edition pp. 116–120. 10 min or as time permits.

• Readiness

LESSON FOCUS

Lesson 12: Problem Solving: Using Systems of Equations

- Student Edition p. 69; 30 min.
- Teacher's Manual pp. 42–43
- EL Adaptations Lesson 12

Ralph's Deli

Help students decipher the reasons why each equation is chosen for the system of equations. Remind students to think of translating words into algebraic expressions.

See p. 55 of *Instruction Coach Teacher's Manual* for useful EL advice.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 54–57, READY TO GO: Work Together (A). 10 min.

 Performance Coach Teacher's Edition

pp. 24–25, with Lesson Practice of Student Edition pp. 116–120. 10 min or as time permits.

Readiness

Waggle^{_}`

► Goal Systems of Equations



Day 1

Day 2

Day 3

REVIEW AND ASSESS

• Student Edition pp. 74–75:

• Teacher's Manual p. 98

Go over Questions 22-30

and discuss. Pay special

students to take a look at

half of the Review on SE

Measurements) on p. 75.

lessons of Domain 2.

29 and 30 on p. 74 of

Instruction Coach Student

See Progression Chart on

TM pp. 22–23 for a view of progressions connecting the

DIFFERENTIATION OPTIONS

Extra challenge: Questions

instructions for the second

p. 74. In particular, clarify

any doubts with respect to

Performance Task (Classroom

Task on SE p. 75. Ask

attention to the Performance

Instruction Coach

Domain 2 Review

Review Part 2 and

Performance Task

40 min.

Day 4

Day 5

Domain 2: Expressions and Equations

LESSON FOCUS Instruction Coach

Lesson 12: Problem Solving: Using Systems of Equations

- Student Edition pp. 70–71; 20 min.
- Teacher's Manual pp. 42–43
- EL Adaptations Lesson 12

Practice

Read as much of each problem as is necessary to make sure students understand what needs to be done, then help with the writing of equations. Follow the 4-step process for solving problems.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 54–57, READY TO GO: Support Independent Practice (1–7). 20 min.

• Performance Coach Teacher's Edition

pp. 24–25, with Lesson Practice of Student Edition pp. 116–120. 20 min or as time permits.

Readiness

REVIEW AND ASSESS Instruction Coach Domain 2 Review

- Student Edition pp. 72–73; 40 min.
- Student Edition p. 6; 30 min.
- Teacher's Manual pp. 97–98

Review Part 1

Go over Questions 1–21 and discuss. Ask students to take a look at instructions for the first half of the Review on SE pp. 72–73. Make sure all instructions are clear. See Progression Chart on TM pp. 22–23 for a view of progressions connecting the lessons of Domain 2.

DIFFERENTIATION OPTIONS

Performance Coach Teacher's Edition

p. 26, with Domain 2 Review section of Student Edition pp. 121–123 as time permits.

21–123 as time permits

 Performance Coach Teacher's Edition

Edition.

p. 26, with Domain 2 Review section of Student Edition pp. 124–125 as time permits.

REVIEW AND ASSESS Instruction Coach Domain 2 Assessment

- Assessments pp. 12–17; 40 min.
- Assessments Answer Key p. 6

Assessment Part 1 Have students complete Questions 1–25. Provide extra time for assessments and provide readers to read word problems to students.

DIFFERENTIATION OPTIONS

Provide extra time and assistance for students who qualify.

REVIEW AND ASSESS Instruction Coach Domain 2 Assessment

- Assessments pp. 18–21; 40 min.
- Assessments Answer Key pp. 6–8

Assessment Part 2 Have students complete Questions 26–30. Provide clear explanation of questions.

DIFFERENTIATION OPTIONS

Provide extra time and assistance for students who qualify.

Waggle



Day 1

Day 2





Domain 3: Functions

LESSON FOCUS Instruction Coach Lesson 13: Introducing Functions

- Student Edition p. 78; 20 min.
- Teacher's Manual pp. 46–47
- EL Adaptations Lesson 13

Before the Lesson

Ask students to think of additional examples of where a single input yields a single output. This is in contrast to situations where a single input yields many outputs. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 58–59, PLUG IN. Build Background. 20 min.
- Performance Coach Teacher's Edition pp. 28–29, with Getting the

Idea and Example 1 of Student Edition p. 128. 20 min.

Readiness

LESSON FOCUS Instruction Coach Lesson 13: Introducing Functions

- Student Edition p. 78; 20 min.
- Teacher's Manual pp. 46–47
- EL Adaptations Lesson 13

Understand

Distinguish between relation and function. See p. 58 of *Support Coach Teacher's Manual* for useful EL advice.

DIFFERENTIATION OPTIONS

Add additional practice in recognizing relations that are not functions.

- Support Coach Teacher's Manual pp. 58–59 for PLUG IN. Model Application (A), 20 min.
- Performance Coach Teacher's Edition pp. 28–29, with Examples 2–4 of Student Edition pp. 129–130. 20 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 13: Introducing Functions

unctions

- Student Edition p.79; 30 min.
- Teacher's Manual pp. 46–47
- EL Adaptations Lesson 13

Connect

Make this clear: The equation here is not standard as it uses ± indicating that both the positive and negative values are included. Make sure the vertical line test makes sense.

DIFFERENTIATION OPTIONS

Understanding why the vertical line test works is key here, so provide additional examples.

- Support Coach Teacher's Manual pp. 58–59, PLUG IN. Model Application (B). 10 min.
- Performance Coach Teacher's Edition

pp. 28–29, with Example 5 and Coached Example of Student Edition p. 131. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 13: Introducing Functions

Day 4

- Student Edition pp. 80–81; 30 min.
- Teacher's Manual pp. 46–47
- EL Adaptations Lesson 13

Practice

Make sure students can distinguish between relations and functions. See Questions 1–6. Provide assistance with reading and interpreting questions.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 58–59, PLUG IN. Practice and Assess. Extra challenge: Questions 11 and 12 on p. 81 of Instruction Coach Student Edition. 10 min.

• Performance Coach Teacher's Edition pp. 28–29, with Lesson

Practice of Student Edition pp. 132–136. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach

Lesson 14: Comparing Functions Represented in Different Ways

- Student Edition p. 82; 20 min.
- Teacher's Manual pp. 48–49
- EL Adaptations Lesson 14

Before the Lesson See Before the Lesson. Add practice with additional linear equations, so that students get to see the connection with equations, graphs, and tables. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 70–73, READY TO GO. Build Background. 20 min.

• Performance Coach Teacher's Edition pp. 30–31, with Getting the Idea and Example 1 of Student

Edition pp. 137–138. 20 min.

• Readiness

► Goal Functions

Waggle[∞]

► Goal Functions

Day 1



Day 5

Domain 3: Functions

LESSON FOCUS Instruction Coach

Lesson 14: Comparing Functions Represented in Different Ways

- Student Edition p. 82; 30 min.
- Teacher's Manual pp. 48–49
- EL Adaptations Lesson 14

Understand

Review key words such as *slope* and *intercept*. This UNDERSTAND affords a good example of how the three representations work together.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 70–73, READY TO GO. Introduce and Model. 10 min.
- Performance Coach Teacher's Edition

pp. 30–31, with Examples 2–3 of Student Edition pp. 138–139. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 14: Comparing Functions Represented in Different Ways

Day 2

- Student Edition p. 83; 30 min.
 Teacher's Manual
- pp. 48–49
- EL Adaptations Lesson 14

Connect

In UNDERSTAND, there is an opportunity to study two functions represented differently. Follow through with the TRY, but move slowly.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 70–73, READY TO GO. Work Together. 10 min.
- Performance Coach Teacher's Edition
 Pop 20, 21 with Former
- pp. 30–31, with Example 4 of Student Edition p. 140. 10 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 14: Comparing Functions Represented in Different Ways

Day 3

- Student Edition
- p. 84; 20 min.
 - Teacher's Manual pp. 48–49
 - EL Adaptations Lesson 14

Practice Part 1 Review rate of change before students start on Practice Then have students complete Questions 1–3. See p. 70 of *Support Coach Teacher's Manual* for useful suggestions for EL.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual

pp. 70–73, READY TO GO. Support Independent Practice. 20 min.

- Performance Coach Teacher's Edition pp. 30–31, with Coached Lesson of Student Edition p. 141 and begin Lesson Practice pp. 142–145. 20 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 14: Comparing Functions Represented in Different Ways

Day 4

- Student Edition pp. 85; 20 min.
- Teacher's Manual pp. 48–49
- EL Adaptations Lesson 14

Practice Part 2 Have students complete Questions 4–7. Ask students to explain what the *y*-intercept of a function is; and then what the *x* intercept is. Ask: 'If you know the *x* and *y* intercepts can you draw the straight-line function?'

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 70–73, READY TO GO. Support Independent Practice. Extra challenge: Questions 6 and 7 on p. 67 of Instruction Coach. 20 min.
- Performance Coach Teacher's Edition pp. 30–31, complete lesson

Practice pp. 142–145. 20 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 15: Linear and

Nonlinear Functions

- Student Edition p. 86; 20 min.
- Teacher's Manual pp. 50–51
- EL Adaptations Lesson 15

Before the Lesson Review how to plot a function on a graph. Literally do this on graph paper, and make sure students know where to place each point. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 58–59, PLUG IN: Build Background, 20 min.
- Performance Coach Teacher's Edition

pp. 32–33, with Getting the Idea and Example 1 of Student Edition p. 146. 20 min.

• Readiness

Waggle[™] ► Goal Functions

► Goal Functions





Day 2





Domain 3: Functions

Instruction Coach Lesson 15: Linear and Nonlinear Functions

- Student Edition p. 86; 2 0 min.
- Teacher's Manual pp. 50–51
- EL Adaptations Lesson 15

Understand

Do students understand the difference between linear and nonlinear functions, and can they explain the difference with examples?

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 58–59, PLUG IN: Introduce Concepts and Vocabulary. 20 min.
- Performance Coach Teacher's Edition pp. 32–33, with Examples 2–4 of Student Edition pp. 147– 148. 20 min
- Readiness

LESSON FOCUS Instruction Coach Lesson 15: Linear

Lesson 15: Linear and Nonlinear Functions

- Student Edition p. 87; 20 min.
- Teacher's Manual pp. 50–51
- EL Adaptations Lesson 15

Connect

See p. 58 of *Support Coach Teacher's Manual* for useful suggestions for EL.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 58–59, PLUG IN: Model Application (A, B). 20 min.
- Performance Coach Teacher's Edition pp. 32–33, with Example

5 and Coached Example of Student Edition p. 149. 20 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 15: Linear and

- Nonlinear Functions

 Student Edition
- pp. 88–89; 20 min.
- Teacher's Manual pp. 50–51
- EL Adaptations Lesson 15

Practice

Make sure all directions are clear. Ask: 'Is it possible to look at an equation to see if it is linear or not?'

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 58–59, PLUG IN: Practice and Assess Extra challenge:

and Assess. Extra challenge: Questions 11–13 on p. 89 of Instruction Coach Student Edition. 20 min.

 Performance Coach Teacher's Edition

pp. 32–33, with Lesson Practice of Student Edition pp. 150–152. 20 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 16: Using Functions to Model Relationships

Day 4

- Teacher's Manual pp. 52–53
- EL Adaptations Lesson 16

Before the Lesson A clear understanding of the connection between *rate of change* and *slope* will be helpful for this lesson and going forward, as these are key concepts in mathematics. Use a few examples showing tables, graphs, and equations.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 62–65, READY TO GO: Build Background, 20 min.
- Performance Coach Teacher's Edition pp. 34–35, with Getting the

Idea and Example 1 of Student Edition p. 154. 20 min.

Readiness

LESSON FOCUS

Lesson 16: Using Functions to Model Relationships

- Student Edition p. 90; 30 min.
- Teacher's Manual pp. 52–53
- EL Adaptations Lesson 16

Example A Support understanding of key vocabulary. See p. 62 of *Support Coach Teacher's Manual* for useful suggestions for EL. Read the problem with students and explain what is necessary to find the *rate of change*.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 62–65, READY TO GO:

Introduce and Model. 10 min. • Performance Coach Teacher's Edition

pp. 34–35, with Examples 2–3 of Student Edition pp. 155–157. 10 min.

• Readiness

► Goal Functions

Waqqle

► **Goal** Model Relationships with Functions

Day 1



Day 5

Domain 3: Functions

LESSON FOCUS Instruction Coach

Lesson 16: Using Functions to Model Relationships

- Student Edition p. 91; 30 min.
- Teacher's Manual pp. 52–53
- EL Adaptations Lesson 16

Example B

This example starts with a table and asks for the rate of change, and uses a graph to check the answer. All of that needs to clear, so ask students to do a similar example using a real world setting.

DIFFERENTIATION OPTIONS

 Support Coach Teacher's Manual pp. 62–65, READY TO GO: Work Together (A). 10 min.

Performance Coach Teacher's Edition

pp. 34–35, with Example 4 and Coached Example of Student Edition pp. 157–158. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 16: Using Functions to Model Relationships

Day 2

- Student Edition p. 92; 20 min.
- Teacher's Manual pp. 52–53
- EL Adaptations Lesson 16

Practice Part 1 Show students how to get started in each section. If necessary read out the directions and show an example to get the Practice started. Then have students complete Questions 1–8 on SE p. 92. Key vocabulary includes: rate of change, initial value, and intercept.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 62–65, READY TO GO: Support Independent Practice. Extra challenge: Question 13 on p. 93 of Instruction Coach Student Edition. 20 min.

- Performance Coach Teacher's Edition
- pp. 34–35, with Lesson Practice of Student Edition pp. 159–162. 20 min or as time permits.
- Readiness

Waggle

► Goal Model Relationships with Functions

LESSON FOCUS Instruction Coach Lesson 16: Using Functions to Model Relationships

Day 3

- Student Edition p. 93; 20 min.
- Teacher's Manual pp. 52–53
 - EL Adaptations Lesson 16

Practice Part 2 Have students complete Questions 9–16 on SE p. 93. Discuss the solutions with the class to make sure all understand. See Question 14, which ties these together. Go over each of these concepts.

DIFFERENTIATION OPTIONS

 Support Coach Teacher's Manual

pp. 62–65, READY TO GO: Problem Solving. Extra challenge: Question 13 on p. 93 of Instruction Coach Student Edition. 20 min.

• Performance Coach Teacher's Edition

pp. 34–35, with Lesson Practice of Student Edition pp. 159–162. 20 min or as time permits.

Readiness

LESSON FOCUS Instruction Coach Lesson 17: Describing Functional Relationships from Graphs

Day 4

- Teacher's Manual pp. 54–55; 20 min.
- EL Adaptations Lesson 17

Before the Lesson Do not forget the slope of a horizontal line and the slope of a vertical line. Explain these and show how the slope of a linear function moves from 0 through increasing values to "do not exist" to negative values as the graph moves counterclockwise.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 66–67, PLUG IN: Build

Background. 20 min.

- Performance Coach Teacher's Edition pp. 36–37, with Getting the Idea and Examples 1–2 of Student Edition pp. 163–164. 20 min.
- Readiness

LESSON FOCUS Instruction Coach

Lesson 17: Describing Functional Relationships from Graphs

- Student Edition p. 94; 30 min.
- Teacher's Manual pp. 54–55
- EL Adaptations Lesson 17

Example A

See p. 67 of *Support Coach Teacher's Manual* for useful suggestions for EL. Explain piecewise function, and show why the one shown is a function.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 66–67, PLUG IN: Model

Application (A). 10 min.
Performance Coach Teacher's Edition

pp. 36–37, with Examples 3–4 of Student Edition pp. 165–167. 10 min.

• Readiness

► Goal Model Relationships with Functions



Day 1

Day 2



Domain 3: Functions

LESSON FOCUS Instruction Coach

Lesson 17: Describing **Functional Relationships** from Graphs

- Student Edition p. 95; 30 min.
- Teacher's Manual pp. 54–55
- EL Adaptations Lesson 17

Example B

Here is another example of a nonlinear function, this being a quadratic function. Ask why all points are in Ouadrant I. See Observation and Action at the bottom of p. 67 Support Coach Teacher's Manual.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 66–67, PLUG IN: Support Discussion. 10 min.
- Performance Coach **Teacher's Edition** pp. 36–37, with Coached Example of Student Edition p. 168. 10 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 17: Describing **Functional Relationships**

from Graphs

- p. 96; 20 min. • Teacher's Manual pp. 54–55
- EL Adaptations Lesson 17

Practice Part 1

• Student Edition

Have students complete Ouestions 1–4 on SE p. 96. Explain how to get started on each section, monitor student work to make sure they are not off track. Ask: 'Is it possible for a function to be neither increasing nor decreasing?'

DIFFERENTIATION OPTIONS

 Support Coach **Teacher's Manual** pp. 66–67, PLUG IN: Model

Application, 20 min. Performance Coach

Teacher's Edition pp. 36–37, with Lesson Practice of Student Edition pp. 169–172. 20 min or as

time permits. Readiness

LESSON FOCUS Instruction Coach Lesson 17: Describing **Functional Relationships** from Graphs

- Student Edition p. 97; 20 min.
- Teacher's Manual pp. 54–55
- EL Adaptations Lesson 17

Practice Part 2 Have students complete Ouestions 5–7 on SE p. 97. Work through Ouestions 6 and 7 to make sure all understand the reasoning behind them.

DIFFERENTIATION OPTIONS

- Support Coach **Teacher's Manual** pp. 66–67, PLUG IN: Practice and Assess, 20 min.
- Performance Coach **Teacher's Edition**

pp. 36–37, with Lesson Practice of Student Edition pp. 169–172. 20 min or as time permits.

Readiness

REVIEW AND ASSESS Instruction Coach Domain 3 Review

Day 4

- Student Edition pp. 98–99; 40 min.
- Teacher's Manual pp. 101

Review Part 1 Go over Ouestions 1-9 and discuss. Ask students to take a look at instructions for the first half of the Review. Make sure all instructions are clear. See Progression Chart on pp. 44-45 TM for a view of progressions connecting the lessons of Domain 3.

DIFFERENTIATION OPTIONS

• Performance Coach **Teacher's Edition**

p. 38. with Domain 3 Review section of Student Edition pp. 173–177 as time permits.

REVIEW AND ASSESS Instruction Coach Domain 3 Review

- Student Edition pp. 99–101; 40 min.
- Teacher's Manual 201–101 aq

Review Part 2 and Performance Task Go over Questions 10-14 and discuss. Pay special attention to the Performance Task on SE p. 101. Ask students to take a look at instructions for the second half of the Review. In particular, clarify any doubts with respect to Performance Task (Describing Functions) on p. 101. See Progression Chart on TM pp. 44-45 for a view of progressions connecting the lessons of Domain 3.

DIFFERENTIATION OPTIONS

Performance Coach **Teacher's Edition**

p. 38, with Domain 3 Review section of Student Edition pp. 173–177 as time permits.

Waqqle

► Goal Model Relationships with Functions





Day 2

Day 3

Day 4



Domain 3: Functions

Domain 4: Geometry

REVIEW AND ASSESS Instruction Coach Domain 3 Assessment

- Assessments pp. 22–28; 40 min.
- Assessments Answer Key p. 9

Assessment Part 1 Have students complete Questions 1–20. Provide extra time for assessments and provide readers to read word problems to students.

DIFFERENTIATION OPTIONS

Provide extra time and assistance for students who qualify.

REVIEW AND ASSESS Instruction Coach Domain 3 Assessment

- Assessments pp. 29–33; 40 min.
- Assessments Answer Key pp. 9–11

Assessment Part 2 Have students complete Questions 21–25. Provide clear explanation of questions.

DIFFERENTIATION OPTIONS

Provide extra time and assistance for students who qualify.

LESSON FOCUS Instruction Coach Lesson 18: Properties of Rotations, Reflections, and Translations

- Student Edition
 p. 104; 40 min.

 Teacher's Manual
 - pp. 58–59; 40 min.
 - EL Adaptations Lesson 18

Before the Lesson Get ready for a new round of words. See Vocabulary. Go over each of these with the support of a good model: Use the three sections called Introduce and Model from *Support Coach Teacher's Manual* pp. 74–75, 82– 83, and 90–91 for PLUG IN. These will provide concrete introductions to translation, reflection, and rotation. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

Performance Coach Teacher's Edition

pp. 40–45, with Getting the Idea sections of Student Edition pp. 180, 189, and 200 as time permits.

Readiness

LESSON FOCUS Instruction Coach Lesson 18: Properties of Rotations, Reflections, and Translations

- Student Edition pp. 104–105; 20 min.
- Teacher's Manual pp. 58–59
- EL Adaptations Lesson 18

Understand–Connect Refer to the plan used on Day 1 of this lesson; see the same references below. These pages can be used for a variety of students allowing for wide differentiation. Vocabulary and models are keys to moving forward.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 74–75, 82–83, and 90–91, PLUG IN: Introduce and Model. 20 min.

 Performance Coach Teacher's Edition

pp. 40–41, with Examples 1–4 and Coached Example of Student Edition pp. 180–184. 20 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 18: Properties of Rotations, Reflections, and Translations

- Student Edition p. 106; 20 min.
- Teacher's Manual pp. 58–59
- EL Adaptations Lesson 18

Example A

See the references below. These are from three PLUG IN sections (called Support Discussion) of *Support Coach Teacher's Manual*, chosen to support Examples A and B. These sections are designed to create discussion in groups about the ideas and models of this lesson.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 74–75, 82–83, and 90–91, PLUG IN: Support Discussion. 20 min.

• Performance Coach Teacher's Edition

pp. 44–45, with Examples 1–4 and Coached Example of Student Edition pp. 200–205. 20 min.

Readiness

Waggle^{**}



Day 1

Day 2





Domain 4: Geometry

LESSON FOCUS Instruction Coach

Lesson 18: Properties of Rotations. Reflections. and Translations

- Student Edition p. 107: 20 min.
- Teacher's Manual pp. 58–59
- EL Adaptations Lesson 18

Example B

See the references below. These are from three PLUG IN sections (called Support Discussion) of Support Coach Teacher's Manual, chosen to support Examples A and B. These sections are designed to create discussion in groups about the ideas and models of this lesson.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual pp. 74–75, 82–83, and 90–91. PLUG IN: Support

Discussion, 20 min.

• Performance Coach **Teacher's Edition**

pp. 42–43, with Examples 1–4 and Coached Example of Student Edition pp. 189–194. 20 min.

Readiness

Waqqle

LESSON FOCUS Instruction Coach

Lesson 18: Properties of Rotations, Reflections, and Translations

- Student Edition pp. 108–109; 30 min.
- Teacher's Manual pp. 58–59
- EL Adaptations Lesson 18

Practice

Guide students slowly through this practice, reminding them of the various characteristics of the rigid motions studied. See pp. 74, 82, and 90 of Support Coach Teacher's *Manual* for useful suggestions for EL.

DIFFERENTIATION OPTIONS

 Support Coach **Teacher's Manual** pp. 74–75, 82–83, and

90–91. PLUG IN: Practice and Assess. 10 min.

 Performance Coach **Teacher's Edition**

pp. 40–45, with Lesson Practice sections of Student Edition pp. 185–188, 195– 199, and 206–209, 10 min or as time permits.

Readiness

LESSON FOCUS Instruction Coach Lesson 19: Understanding Congruence of

Two-Dimensional Figures (Using Rigid Motions)

- p. 110; 30 min.
- Teacher's Manual pp. 60–61
- EL Adaptations Lesson 19

Before the Lesson Start with an understanding of what is meant by congruence in many aspects, from models to real world objects to geometric figures. Review the three rigid motions already studied to ensure that these are clear. See references below for additional activities. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

 Support Coach **Teacher's Manual**

pp. 76–77, 84–85, and 92–93, POWER UP: Build Background. 10 min.

- Performance Coach **Teacher's Edition** pp. 48–49, with Getting the Idea section of Student Edition
- pp. 218–219, 10 min.
- Readiness

LESSON FOCUS Instruction Coach

Lesson 19: Understanding Congruence of **Two-Dimensional Figures** (Using Rigid Motions)

Day 4

- Student Edition p. 110; 30 min.
- Teacher's Manual рр. 60–61
- EL Adaptations Lesson 19

Understand

Point out the two rigid motions of this example to explain what is meant by two figures being congruent. The sections referenced below called Introduce and Model will provide further clarifying activities.

DIFFERENTIATION OPTIONS

 Support Coach **Teacher's Manual**

pp. 76–77, 84–85. and 92–93. POWER UP: Introduce and Model. 10 min.

• Performance Coach **Teacher's Edition**

pp. 48–49. with Example 1 of Student Edition pp. 219–220. 10 min.

Readiness

LESSON FOCUS Instruction Coach

Lesson 19: Understanding Congruence of Two-Dimensional Figures (Using Rigid Motions)

- Student Edition p. 111; 30 min.
- Teacher's Manual pp. 60–61
- EL Adaptations Lesson 19

Connect

Here we see two different ways to show that two figures are congruent. Again as with UNDERSTAND, see the three Introduce and Model sections referenced below.

DIFFERENTIATION OPTIONS

Support Coach **Teacher's Manual**

pp. 76–77, 84–85, and 92–93. POWER UP: Introduce and Model, 10 min.

 Performance Coach **Teacher's Edition** pp. 48–49, with Example 2 of Student Edition p. 221. 10 min.

Readiness

► Goal Rigid Transformations and Congruence

▶ Goal Rigid Transformations and Congruence

- Student Edition

Day 1



Day 5

Domain 4: Geometry

LESSON FOCUS

Lesson 19: Understanding Congruence of Two-Dimensional Figures (Using Rigid Motions)

- Student Edition pp. 112–113; 20 min.
- Teacher's Manual pp. 60–61
- EL Adaptations Lesson 19

Practice

Read each question to students if necessary, and make sure all directions are clear. For additional practice see references below taken from three lessons of *Support Coach Teacher's Manual*.

DIFFERENTIATION OPTIONS Support Coach Teacher's Manual pp. 76–77, 84–85, and 92–93, POWER UP: Model Application. 20 min. Performance Coach Teacher's Edition pp. 48–49, with Example 3 of Student Edition p. 222. 20 min. Readiness

LESSON FOCUS Instruction Coach Lesson 20: Rigid Motion on the Coordinate Plane

Day 2

- Student Edition p. 114; 20 min.
- Teacher's Manual pp. 62–63
- EL Adaptations Lesson 20

Example A

Use the example here to prepare students for predictable changes in coordinates from pre-image to image when applying a rigid motion on the coordinate plane.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 78–81, READY TO GO: Introduce and Model. 20 min.
- Performance Coach Teacher's Edition
- pp. 40–41, with Lesson Practice of Student Edition pp. 185–188. 20 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 20: Rigid Motion on the Coordinate Plane

Day 3

- Student Edition p. 115; 30 min.
- Teacher's Manual pp. 62–63
- EL Adaptations Lesson 20

Example B Make the generalization required and review this with another example.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 86–91, READY TO GO: Introduce and Model. 10 min.

 Performance Coach Teacher's Edition

pp. 42–43, with Lesson Practice of Student Edition pp. 195–199. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 20: Rigid Motion on the Coordinate Plane

Day 4

- Student Edition p. 116; 30 min.
- Teacher's Manual pp. 62–63
- EL Adaptations Lesson 20

Example C Make the generalization required and review this with another example.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 94–97, READY TO GO: Introduce and Model, 10 min.

Performance Coach Teacher's Edition

pp. 44–45, with Lesson Practice of Student Edition pp. 206–209. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 20: Rigid Motion on

- Student Edition
- p. 117; 30 min.
- Teacher's Manual pp. 62–63
- EL Adaptations Lesson 20

Problem Solving Remind students of the 4-step process for problem solving. Read the problem to students and clarify what is on the diagram.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 94–97, READY TO GO: Problem Solving. 10 min.
- Performance Coach Teacher's Edition

pp. 40–45, with completion of Lesson Practice sections of Student Edition pp. 185–188, 195–199, 206–209. 10 min or as time permits.

• Readiness

Waggle™

► Goal Rigid Transformations and Congruence

► Goal Translations, Rotations, and Reflections

► Goal Dilations and Similarity



Day 5

Day 1

Day 2



Domain 4: Geometry

LESSON FOCUS Instruction Coach Lesson 20: Rigid Motion on

the Coordinate Plane

- Student Edition pp. 118–119: 30 min.
- Teacher's Manual pp. 62–63
- EL Adaptations Lesson 20

Practice

See pp. 74, 82, and 90 of Support Coach Teacher's Manual for useful EL advice. Move through this Practice in sections: the first 2 Questions, then 2 more, each time checking student work.

DIFFERENTIATION OPTIONS

- Support Coach **Teacher's Manual** pp. 94–97, READY TO GO: Support Independent Practice, 10 min.
- Performance Coach **Teacher's Edition**

pp. 40–45, with completion of Lesson Practice sections of Student Edition pp. 185–188. 195–199, 206–209, 10 min or as time permits

Readiness

LESSON FOCUS Instruction Coach Lesson 21: Dilations on the

Coordinate Plane • Student Edition

- p. 120: 20 min.
- Teacher's Manual pp. 64–65
- EL Adaptations Lesson 21

Before the Lesson Introduce scale factor as in blueprints, maps, and photographs. Speak of enlarging a photo, reducing a photo, or zooming in and out of a screen view. Dilation does not change the shape of the figure involved. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

 Support Coach **Teacher's Manual** pp. 98–99, PLUG IN: Support

Build Background, 20 min.

- Performance Coach Teacher's Edition pp. 46–47. with Getting the Idea and Example 1 of Student Edition pp. 210–211. 20 min.
- Readiness

Instruction Coach Lesson 21: Dilations on the **Coordinate Plane**

• Student Edition p. 120; 20 min.

LESSON FOCUS

- Teacher's Manual pp. 64–65
- EL Adaptations Lesson 21

Understand The dilation here is an enlargement. Explain how the rectangle became enlarged by a factor of 3. Go over each step of the process.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 98–99, PLUG IN: Support Introduce and Model. 20 min.
- Performance Coach **Teacher's Edition** pp. 46–47, with Examples

2–3 of Student Edition pp. 211-212. 20 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 21: Dilations on the **Coordinate Plane**

Day 4

- Student Edition p. 121; 20 min.
- Teacher's Manual pp. 64–65
- EL Adaptations Lesson 21

Connect

In Connect, point out that this *dilation* is a reduction (scale factor 12) shown on a coordinate plane. Make it clear that the ordered pairs all change by the same factor.

DIFFERENTIATION OPTIONS

- Support Coach **Teacher's Manual** pp. 100–101, POWER UP: Model Application (A. B). 20 min.
- Performance Coach **Teacher's Edition** pp. 46–47, with Coached Example of Student Edition p. 213, 20 min.

Readiness

LESSON FOCUS Instruction Coach

Lesson 21: Dilations on the **Coordinate Plane**

- Student Edition pp. 122–123; 30 min.
- Teacher's Manual pp. 64–65
- EL Adaptations Lesson 21

Practice

Read all directions to students if necessary, and make sure all questions are clear. See p. 100 of Support Coach Teacher's Manual for a useful suggestion for EL.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 102–105, READY TO GO: Support Independent Practice (3–9). Extra challenge: Ouestions 9 and 10 on p. 123 of Instruction Coach Student Edition, 10 min.

Performance Coach **Teacher's Edition**

pp. 46–47. with Lesson Practice section of Student Edition pp. 214–217. 10 min or as time permits.

Readiness

Waggle^{**}

▶ Goal Translations, Rotations, and Reflections ► Goal Dilations and Similarity ▶ Goal Translations, Rotations, and Reflections

► Goal Dilations and Similarity

Day 1



Day 5

Domain 4: Geometry

LESSON FOCUS

Lesson 22: Understanding Similarity of Two-Dimensional Figures (Using Transformations)

- Student Edition p. 124; 30 min.
- Teacher's Manual pp. 66–67
- EL Adaptations Lesson 22

Before the Lesson Distinguish between congruent and similar figures. Use models. Broaden the discussion to three-dimensional figures. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 108–109, POWER UP: Build Background. 10 min.

- Performance Coach Teacher's Edition pp. 48–49, with Example 4 of Student Edition p. 223. 10 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 22: Understanding Similarity of Two-Dimensional Figures (Using Transformations)

Day 2

- Student Edition p. 124; 30 min.
- Teacher's Manual pp. 66–67
- EL Adaptations Lesson 22

Understand

Review all the rigid motions studied and make sure students understand the motions involved. See p. 108 of *Support Coach Teacher's Manual* for a useful suggestion for EL.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 108–109, POWER UP: Introduce and Model. 10 min.

- Performance Coach Teacher's Edition pp. 48–49, with Coached Example of Student Edition p. 224, 10 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 22: Understanding Similarity of Two-Dimensional Figures (Using Transformations)

Day 3

- Student Edition p. 125; 30 min.
- Teacher's Manual pp. 66–67
- EL Adaptations Lesson 22

Connect

This Connect is a good way to compare two rectangles that may look similar and to test if they are. Make sure all steps are clear.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 108–109, POWER UP: Model Applications (A, B). 10 min.

- Performance Coach Teacher's Edition pp. 48–49, with Lesson Practice section of Student Edition p. 225, 10 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 22: Understanding Similarity of Two-Dimensional Figures (Using Transformations)

Day 4

- Student Edition p. 126; 20 min.
- Teacher's Manual pp. 66–67
- EL Adaptations Lesson 22

Practice Part 1 Have students complete Questions 1–5 on SE p. 126. Read directions to students, and observe their work to ensure they are moving along correctly. Each question will require careful step-bystep movements to make sure all understand the motions used.

DIFFERENTIATION OPTIONS

 Support Coach Teacher's Manual

pp. 108–109, POWER UP: Practice and Assess. Extra challenge: Questions 8 and 9 on p. 127 of Instruction Coach Student Edition. 20 min.

- Performance Coach Teacher's Edition pp. 48–49, with Lesson Practice section of Student Edition pp. 226–227. 20 min.
- Readiness

LESSON FOCUS

Lesson 22: Understanding Similarity of Two-Dimensional Figures (Using Transformations)

- Student Edition p. 127; 20 min.
- Teacher's Manual pp. 66–67
- EL Adaptations Lesson 22

Practice Part 2 Have students complete Questions 6–9 on SE p. 127. Each question will require careful step-by-step movements to make sure all understand the motions used. See p. 110 of *Support Coach Teacher's Manual* for a useful suggestion for EL.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 108–109, POWER UP: Practice and Assess. Extra challenge: Questions 8 and 9 on p. 127 of Instruction Coach Student Edition. 20 min.

 Performance Coach Teacher's Edition

pp. 48–49, with Lesson Practice section of Student Edition p. 228. 20 min.

• Readiness

Waggle

► Goal Dilations and Similarity



Day 1

Day 2





Domain 4: Geometry

LESSON FOCUS Instruction Coach Lesson 23: Extending

Understanding of Angle Relationships

- Student Edition p. 128; 20 min.
- Teacher's Manual pp. 68–69
- EL Adaptations Lesson 23

Before the Lesson

Many new ideas and words are here to introduce and demonstrate, so go over the list on p. 68 of *Instruction Coach Teacher's Manual*. Students need to hear each of these words spoken and clarified. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 116–117, POWER UP: Build Background. 20 min.

 Performance Coach Teacher's Edition

pp. 50–51, with Getting the Idea section of Student Edition pp. 229–230. 20 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 23: Extending

Understanding of Angle Relationships

- Student Edition p. 128 30 min.
 Teacher's Manual
- pp. 68–69
- EL Adaptations Lesson 23

Understand

Carefully guide students through every step and every move of this page, making sure they understand the concepts, words, and symbols. You may need to coach students paragraph by paragraph.

DIFFERENTIATION OPTIONS

 Support Coach Teacher's Manual

pp. 116–117, POWER UP: Introduce and Model. 10 min.

• Performance Coach Teacher's Edition pp. 50–51, with Example 1

of Student Edition p. 231. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 23: Extending Understanding of Angle Relationships

- Student Edition p. 129; 30 min.
- Teacher's Manual pp. 68–69
- EL Adaptations Lesson 23

Connect

Advise students to watch out for parallel and angle measure symbols. Make sure that angle identification with numbers is clear to students.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 116–117, POWER UP: Model Application (A). 10 min.
- Performance Coach Teacher's Edition

pp. 50–51, with Example 2 of Student Edition pp. 232–234. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 23: Extending Understanding of Angle Relationships

Day 4

- Student Edition pp. 130–131; 30 min.
- Teacher's Manual pp. 68–69
- EL Adaptations Lesson 23

Practice

See p. 114 of *Support Coach Teacher's Manual* for a useful suggestion for EL. Read directions to students and observe their work to ensure they are moving along correctly.

DIFFERENTIATION OPTIONS

 Support Coach Teacher's Manual

pp. 116–117, POWER UP: Practice and Assess. Extra challenge: Questions 9 and 10 on p. 131 of Instruction Coach Student Edition. 10 min.

 Performance Coach Teacher's Edition

pp. 50–51, with Lesson Practice section of Student Edition pp. 236–239. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 24: Angles in

- Triangles
- Student Edition p. 132; 30 min.
- Teacher's Manual pp. 70–71
- EL Adaptations Lesson 24

Before the Lesson Go over vocabulary dealing with angles and triangles, from *acute*, *obtuse*, *straight*, and *right* to *vertex* and *opposite*. Make sure students have mastered the full meaning of each word. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 118–121, READY TO GO: Build Background. 10 min.

Performance Coach Teacher's Edition

pp. 52–53, with Getting the Idea section and Example 1 of Student Edition pp. 240–241. 10 min.

► **Goal** Angle Relationships

• Readiness

Waggle™

► Goal Angle Relationships

Day 1



Day 5

Day 2

Day 3

Day 4

Domain 4: Geometry

LESSON FOCUS Instruction Coach Lesson 24: Angles in Triangles

- Student Edition p. 132; 30 min.
- Teacher's Manual pp. 70–71
- EL Adaptations Lesson 24

Understand

Note the new ideas and words, and "old" words such as alternate interior, parallel, and transversal. See note for EL on p. 122 of Support Coach Teacher's Manual.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 118–121, READY TO GO: Introduce and Model. 10 min.

Performance Coach Teacher's Edition

pp. 52–53, with Example 2 of Student Edition pp. 241–242. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 24: Angles in Triangles

- Student Edition p. 133; 30 min.
- Teacher's Manual pp. 70–71
- EL Adaptations Lesson 24

Connect

See note for EL on p. 114 of *Support Coach Teacher's Manual*. Students need to be able to figure out problems such as those posed on this page. Offer additional practice. (See reference below.)

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 118–121, READY TO GO:
- Work Together (A, B). 10 min.
 Performance Coach
- **Teacher's Edition** pp. 52–53, with Examples 3–4 of Student Edition pp. 243–244, 10 min.
- Readiness

LESSON FOCUS Instruction Coach Lesson 24: Angles in Triangles

- Student Edition pp. 134–135; 30 min.
- Teacher's Manual pp. 70–71
- EL Adaptations Lesson 24

Practice

Explain and go over each section before moving on to the next section.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual

pp. 118–121, READY TO GO: Support Independent Practice (1–8). Extra challenge: Questions 16 and 17 on p. 135 of Instruction Coach Student Edition. 10 min.

Performance Coach
 Teacher's Edition

pp. 52–53, with Lesson Practice section of Student Edition pp. 245–250. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 25: Explaining the Pythagorean Theorem

- Student Edition p. 136; 20 min.
- Teacher's Manual pp. 72–73
- EL Adaptations Lesson 25

Understand Concentrate on right triangles, acquainting students with all parts. Make sure students can identify all parts easily. This page introduces the Pythagorean Theorem written in its famous form, and its converse. Explain all steps on this page.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 122–123, PLUG IN: Build Background. 20 min.
- Performance Coach
 Teacher's Edition

pp. 54–55, with Getting the Idea and examples 1–2 of Student Edition pp. 251–253. 20 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 25: Explaining the Pythagorean Theorem

- Student Edition p. 137; 30 min.
- Teacher's Manual pp. 72–73
- EL Adaptations Lesson 25

Connect

This page is an application of the Theorem. Offer additional opportunities for students to use the formula.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 122–123, PLUG IN: Introduce Concepts and Vocabulary. 10 min.

Performance Coach Teacher's Edition

pp. 54–55, with Example 3 of Student Edition p. 254. 10 min or as time permits.

• Readiness

Waggle

► Goal Angle Relationships

► Goal Pythagorean Theorem



Day 5

Day 1

Day 2





Domain 4: Geometry

LESSON FOCUS Instruction Coach Lesson 25: Explaining the Pythagorean Theorem

- Student Edition p. 138; 30 min.
- Teacher's Manual pp. 72–73
- EL Adaptations Lesson 25

Example A

Example A shows an application of the Theorem. See note for EL on p. 122 of Support Coach Teacher's Manual.

DIFFERENTIATION OPTIONS

- Support Coach **Teacher's Manual** pp. 122–123. PLUG IN: Support Discussion. 10 min.
- Performance Coach **Teacher's Edition** pp. 54–55, with Examples 5–6 of Student Edition pp. 256–257. 10 min or as time permits.
- Readiness

LESSON FOCUS Instruction Coach

Lesson 25: Explaining the Pythagorean Theorem

- Student Edition p. 139; 30 min.
- Teacher's Manual pp. 72–73
- EL Adaptations Lesson 25

Example B Example B is a problem dealing with the converse of the Theorem. Explain converse.

DIFFERENTIATION OPTIONS

 Support Coach Teacher's Manual pp. 122–123, PLUG IN: Model Application (A). 10 min

- Performance Coach **Teacher's Edition** pp. 54–55, with Example 4 of Student Edition p. 255. 10 min or as time permits.
- Readiness

LESSON FOCUS Instruction Coach Lesson 25: Explaining the

- Pythagorean Theorem • Student Edition
- pp. 140–141: 30 min.
- Teacher's Manual pp. 72–73
- EL Adaptations Lesson 25

Practice

Review vocabulary and make sure students can define each one. Ask students to explain each word with the help of geometric models. Read and explain questions to make sure they are clearly understood.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 122–123. PLUG IN: Practice and Assess. 10 min.
- Performance Coach **Teacher's Edition** pp. 54–55, with Lesson Practice of Student Edition pp. 260–261. 10 min or as

time permits. • Readiness

LESSON FOCUS Instruction Coach Lesson 26: Applying the Pythagorean Theorem in Two and Three Dimensions

Day 4

- Teacher's Manual pp. 74-75; 20 min.
- EL Adaptations Lesson 26

Before the Lesson Review the Pythagorean Theorem along with all concepts and vocabulary associated with the theorem.

DIFFERENTIATION OPTIONS

- Support Coach **Teacher's Manual** pp. 124–125, POWER UP: Build Background, 20 min.
- Performance Coach **Teacher's Edition** pp. 54–55, with Example 7 of Student Edition p. 258. 20 min.
- Readiness

LESSON FOCUS Instruction Coach

Lesson 26: Applying the Pythagorean Theorem in Two and Three Dimensions

- Student Edition p. 142; 30 min.
- Teacher's Manual pp. 74–75
- EL Adaptations Lesson 26

Example A This page is an application of the Theorem. Offer additional opportunities to use the formula.

DIFFERENTIATION OPTIONS

Support Coach **Teacher's Manual** pp. 124–125. POWER UP:

Model Application (A). 10 min.

Performance Coach Teacher's Edition

pp. 54–55, with Coached Example of Student Edition p. 259, 10 min.

Readiness

Waggle

► Goal Pythagorean Theorem

▶ Goal Pythagorean Theorem

Day 1



Day 5

Domain 4: Geometry

LESSON FOCUS Instruction Coach

Lesson 26: Applying the Pythagorean Theorem in Two and Three Dimensions

- Student Edition p. 143; 30 min.
- Teacher's Manual pp. 74–75
- EL Adaptations Lesson 26

Example B

This page is another application of the Theorem. Offer additional real world opportunities to use the formula.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 124–125, POWER UP: Model Application (B). 10 min.

• Performance Coach Teacher's Edition

pp. 54–55, with Lesson Practice of Student Edition p. 262. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 26: Applying the Pythagorean Theorem in Two and Three Dimensions

Day 2

- Student Edition p. 144; 20 min.
- Teacher's Manual pp. 74–75
- EL Adaptations Lesson 26

Practice Part 1 Review vocabulary and make sure students can define each word. Ask students to explain each word with the help of geometric figures. Read and explain Questions 1–5 to make sure they are clearly understood.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 124–125, POWER UP:

Practice and Assess. Extra challenge: Questions 8 and 9 on p. 145 of Instruction Coach. 20 min.

 Performance Coach Teacher's Edition

pp. 54–55, with Lesson Practice of Student Edition p. 263. 20 min or as time permits.

• Readiness

Waggle

► Goal Pythagorean Theorem

LESSON FOCUS Instruction Coach Lesson 26: Applying the Pythagorean Theorem in Two and Three Dimensions

Day 3

- Student Edition p. 145; 20 min.
 - Teacher's Manual pp. 74–75
 - EL Adaptations Lesson 26

Practice Part 2 Before proceeding to these questions, make sure your students understand the application of the Pythagorean Theorem. Read and explain Questions 6–9 to make sure they are clearly understood.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 124–125, POWER UP: Practice and Assess. Extra challenge: Questions 8 and 9 on p. 145 of Instruction Coach. 20 min.

 Performance Coach Teacher's Edition

pp. 54–55, with Review of Lesson Practice of Student Edition pp. 260–263. 20 min or as time permits.

Readiness

LESSON FOCUS Instruction Coach Lesson 27: Applying the Pythagorean Theorem on the Coordinate Plane

Day 4

- Teacher's Manual pp. 76–77; 20 min.
- EL Adaptations Lesson 27

Before the Lesson Review the Pythagorean Theorem along with all concepts and vocabulary associated with the Theorem. Review finding the length of a horizontal or vertical segment on the coordinate plane.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 126–129, READY TO GO: Build Background, 20 min.
- Performance Coach Teacher's Edition pp. 56–57, with Getting the Idea section of Student Edition

p. 264. 20 min. • **Readiness**

LESSON FOCUS Instruction Coach Lesson 27: Applying the

Pythagorean Theorem on the Coordinate Plane

- Student Edition p. 146; 30 min.
- Teacher's Manual pp. 76–77
- EL Adaptations Lesson 27

Example A

This page is an application of the Theorem – computing the distance between any two points on a grid. Offer additional opportunities to use the formula. See Math Tools of *Instruction Coach* for Coordinate Plane.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 126–129, READY TO GO: Introduce and Model. 10 min.

Performance Coach Teacher's Edition

pp. 56–57, with Examples 1–3 of Student Edition pp. 265–267. 10 min or as time permits.

• Readiness

► Goal Pythagorean Theorem



Day 5

Day 1

Day 2



Domain 4: Geometry

LESSON FOCUS

Lesson 27: Applying the Pythagorean Theorem on the Coordinate Plane

- Student Edition p. 147; 30 min.
- Teacher's Manual pp. 76–77
- EL Adaptations Lesson 27

Example B

This page is another application of the Theorem. Offer additional opportunities to use the formula.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 126–129, READY TO GO: Work Together (A). 10 min.
- Performance Coach Teacher's Edition

pp. 56–57, with Example 4 of Student Edition pp. 268–269. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach

Lesson 27: Applying the Pythagorean Theorem on the Coordinate Plane

- Student Edition pp. 148–149; 30 min.
- Teacher's Manual pp. 76–77
- EL Adaptations Lesson 27

Practice

Read the questions if they are not clear.

DIFFERENTIATION OPTIONS

 Support Coach Teacher's Manual

pp. 126–129, READY TO GO: Support Independent Practice (1–8). Extra challenge: Questions 11 and 12 on p. 149 of Instruction Coach. 10 min.

• Performance Coach Teacher's Edition

pp. 56–57, with Lesson Practice of Student Edition pp. 270–273. 10 min or as time permits.

• Readiness

LESSON FOCUS Instruction Coach Lesson 28: Problem

- Solving: Volume

 Student Edition
- pp. 150–151; 25 min.
- Teacher's Manual pp. 78–79
- EL Adaptations Lesson 28

Soup Can and Carnival Treats Make sure students know the common three-dimensional figures. Reminder: Volume is measured in cubic units, such as cubic inches, cubic centimeters, etc. Recall what *p* means and how it is appears in the formulas. See Math Tools of *Instruction Coach* for Volume Formulas.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 132–133, POWER UP:

Model Application (A). 15 min.

• Performance Coach Teacher's Edition

pp. 58–59, with Getting the Idea section and Examples 1–2 of Student Edition pp. 274–275. 15 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 28: Problem Solving: Volume

Day 4

- Student Edition pp. 152–153; 25 min.
- Teacher's Manual pp. 78–79
- EL Adaptations Lesson 28

Beach Ball and Tennis BallsFin a CanSSee note for EL on p. 132G

of Instruction Support Coach Teacher's Manual. See Math Tools of Instruction Coach for Volume Formulas.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 132–133, POWER UP: Model Application (C). 15 min.
- Performance Coach Teacher's Edition

pp. 58–59, with Examples 3–5 of Student Edition pp. 276–278. 15 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 28: Problem

- Solving: Volume
- Student Edition pp. 154–155; 20 min.
- Teacher's Manual pp. 78–79
- EL Adaptations Lesson 28

Practice See Math Tools of *Instruction Coach* for Volume Formulas.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 132–133, POWER UP:

Practice and Assess. 20 min.

• Performance Coach Teacher's Edition

pp. 58–59, with Lesson Practice section of Student Edition pp. 280–283. 20 min or as time permits.

• Readiness

Waggle[™]

► Goal Pythagorean Theorem

► Goal Volume

Day 1



Day 5

Domain 4: Geometry

REVIEW AND ASSESS Instruction Coach **Domain 4 Review**

- Student Edition pp. 156–157; 40 min.
- Teacher's Manual pp. 111–112

Review Part 1

Go over Questions 1-10 and discuss. Ask students to take a look at instructions on these pages, the first half of the Review. Make sure all instructions are clear. See Progression Chart on TM pp. 56–57 for a view of progressions connecting the lessons of Domain 4.

DIFFERENTIATION OPTIONS

Performance Coach **Teacher's Edition**

p. 60. with Domain 4 Review section of Student Edition pp. 284–285 as time permits.

Instruction Coach **Domain 4 Review**

- Student Edition pp. 158–159; 40 min.
- Teacher's Manual 2112–112 aq

Review Part 2 and

Performance Task Go over Questions 11-14 and discuss. Pay special attention to the Performance Task on p. 159. Ask students to take a look at instructions on these pages, the second half of the Review. In particular, clarify any doubts with respect to Performance Task (Proving the Pythagorean Theorem) on p. 159. See Progression Chart on TM pp. 56-57 for a view of progressions connecting the lessons of Domain 4.

DIFFERENTIATION OPTIONS

Performance Coach **Teacher's Edition**

p. 60. with Domain 4 Review section of Student Edition pp. 286–288 as time permits.

REVIEW AND ASSESS Instruction Coach Domain 4 Assessment

Day 3

- Assessments pp. 34–39: 40 min.
- Assessments Answer Key p. 12

Assessment Part 1 Have students complete Ouestions 1-20. Provide extra time for assessments and provide readers to read word problems to students.

DIFFERENTIATION OPTIONS

Provide extra time and assistance for students who qualify.

REVIEW AND ASSESS Instruction Coach **Domain 4 Assessment**

Day 4

- Assessments pp. 40–43: 40 min.
- Assessments Answer Key pp. 12–14

Assessment Part 2 Have students complete Ouestions 21-25. Provide clear explanation of questions.

DIFFERENTIATION OPTIONS

Provide extra time and assistance for students who qualify.

Domain 5

LESSON FOCUS Instruction Coach

Lesson 29: Constructing and Interpreting Scatter Plots

- Teacher's Manual pp. 82-83; 20 min.
- EL Adaptations Lesson 29

Before the Lesson Review plotting graphs given a set of ordered pairs. Explain bivariate and outlier with examples. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 140–141. POWER UP: Build Background, 20 min.
- Performance Coach **Teacher's Edition**

► Goal Scatter Plots

pp. 62–63, with Getting the Idea section of Student Edition pp. 292–293. 20 min.

Readiness

Waggle

REVIEW AND ASSESS

Day 2



Day 1

triumphlearning

Day 5

Domain 5: Statistics and Probability

LESSON FOCUS Instruction Coach

Lesson 29: Constructing and Interpreting Scatter Plots

- Student Edition p. 162; 30 min.
- Teacher's Manual pp. 82–83
- EL Adaptations Lesson 29

Understand

Explain the idea of connecting two sets if data to determine if an association exists. Give simple examples such as age and height for school people. See p. 140 of *Support Coach Teacher's Manual* for a useful tip for EL.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 140–141, POWER UP: Introduce and Model, 10 min.
- Performance Coach Teacher's Edition pp. 62–63, with Example 1 of Student Edition p. 293. 10 min.
- Readiness

LESSON FOCUS Instruction Coach and Lesson 29: Constru

Lesson 29: Constructing and Interpreting Scatter Plots

Day 2

- Student Edition p. 163; 30 min.
- Teacher's Manual pp. 82–83
- EL Adaptations Lesson 29

Connect

Slopes of straight lines can be positive and negative. Explain the meaning of a positive slope and a negative slope when creating scatter plots.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 140–141, POWER UP: Model Application (A). 10 min.
- Performance Coach Teacher's Edition pp. 62–63, with Example 2

of Student Edition p. 294. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 29: Constructing and

Interpreting Scatter Plots

Day 3

- Student Edition pp. 164–165; 20 min.
- Teacher's Manual pp. 82–83
- EL Adaptations Lesson 29

Practice

Help with each section of Practice, making sure instructions are clear. Explain each graph of Practice to make sure students know how to answer the questions.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 140–141, POWER UP: Practice and Assess, 20 min.
- Performance Coach Teacher's Edition pp. 62–63, with Example 3

of Student Edition p. 295. 20 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 30: Modeling

Day 4

Relationships in Scatter with Straight Lines

- Student Edition p. 166; 20 min.
- Teacher's Manual pp. 84–85
- EL Adaptations Lesson 30

Before the Lesson

Go over the concepts in the Before the Lesson. Explain a linear association, and both a positive and a negative linear association. Display examples of both. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 142–145, READY TO GO: Build Background. 20 min.
- Performance Coach Teacher's Edition pp. 62–63, with Example 4 of Student Edition p. 296,

Goal Scatter Plots

- 20 min.
- Readiness

LESSON FOCUS

Lesson 30: Modeling Relationships in Scatter with Straight Lines

- Student Edition p. 166; 20 min.
- Teacher's Manual pp. 84–85
- EL Adaptations Lesson 30

Understand

These pages illustrate two examples of *scatter plots*. On the UNDERSTAND page find a positive association (correlation) between number of sponsors and money raised. Explain *trend line* and *outlier*. Offer additional examples.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 142– 145, READY TO GO: Introduce Concepts and Vocabulary. 20 min.
- Performance Coach Teacher's Edition

pp. 62–63, with Example 5 of Student Edition p. 297. 20 min.

• Readiness

Waggle

► Goal Scatter Plots

Day 1



Day 5

Domain 5: Statistics and Probability

LESSON FOCUS Instruction Coach

Lesson 30: Modeling Relationships in Scatter with Straight Lines

- Student Edition p. 167; 30 min.
- Teacher's Manual pp. 84–85
- EL Adaptations Lesson 30

Connect

On the Connect page, find a negative association between pages in novels and times checked out of a library. Notice that the trend line here shows a negative association between the two variables in contrast to graph in UNDERSTAND. Explore and contrast the two situations.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 142–145, READY TO GO: Support Discussion. 10 min.

• Performance Coach Teacher's Edition pp. 62–63, with Example 6 of Student Edition p. 298.

of Student Edition p. 298. 10 min.

• Readiness

Waggle

► Goal Scatter Plots

LESSON FOCUS Instruction Coach Lesson 30: Modeling Relationships in Scatter with Straight Lines

Day 2

- Student Edition pp. 168–169; 30 min.
- Teacher's Manual pp. 84–85
- EL Adaptations Lesson 30

Practice

Explain directions for all questions. Spend extra time going over Questions 8 and 9. See note on EL on p. 142 of Support Coach Teacher's Manual.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 142–145, READY TO GO: Problem Solving. 10 min.

 Performance Coach Teacher's Edition pp. 62–63, with Lesson Practice section of Student Edition pp. 300–303. 10 min or as time permits.
 Readiness

- LESSON FOCUS Instruction Coach Lesson 31: Using Linear Models to Interpret Data
- Teacher's Manual pp. 86–87; 20 min.
- EL Adaptations Lesson 31

Day 3

Before the Lesson "Linear Models" means straight lines and the *slopeintercept* form of a straight line. Go over the meaning of y = mx + b, making sure students can go both ways: Graph of line on a grid to equation and from equation to graphing line. (We suggest old fashioned grid paper.) They should have a full understanding of *intercept* and *slope* using this equation.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 148–149, POWER UP: Duild Dackground 20 min

Build Background. 20 min.Performance Coach

Teacher's Edition pp. 64–65, with Getting the Idea section and Example 1 of Student Edition pp. 304–305. 20 min.

Readiness

LESSON FOCUS Instruction Coach Lesson 31: Using Linear Models to Interpret Data

Day 4

- Student Edition p. 170; 20 min.
- Teacher's Manual pp. 86–87
- EL Adaptations Lesson 31

Example A

With knowledge of the *slope-intercept* form, students can take the graph of a line and write the equation. This also means inspecting a *trend line* to determine its equation, and from the equation, we have its *initial value* and its *slope*. Show every step of this example and add a few more *scatter plots* for analysis.

DIFFERENTIATION OPTIONS

- Support Coach Teacher's Manual pp. 148–149, POWER UP: Support Discussion, 20 min.
- Performance Coach Teacher's Edition pp. 64–65, with Examples

2–3 of Student Edition pp. 306–308. 20 min.

• Readiness

LESSON FOCUS CCSS: 8.SP.3

Instruction Coach Lesson 31: Using Linear Models to Interpret Data

- Student Edition p. 171; 20 min.
- Teacher's Manual pp. 86–87
- EL Adaptations Lesson 31

Example B

The *trend line* in Example B shows a downward movement, from left to right. This suggests that the slope will be negative. Check out the data to show students that as prices came down the number of orders went up. Carefully highlight each step—the calculation of *m* and *b*. These are the slope and *y-intercept*.

DIFFERENTIATION OPTIONS

Support Coach Teacher's Manual

pp. 148–149, POWER UP: Model Application (A). 20 min.

 Performance Coach Teacher's Edition
 pp 64,65, with Example

pp. 64–65, with Example 4 of Student Edition pp. 308–309. 20 min.

• Readiness

► Goal Scatter Plots



Day 1

Day 2

Day 3



Domain 5: Statistics and Probability

LESSON FOCUS Instruction Coach Lesson 31: Using Linear Models to Interpret Data

- Student Edition pp. 172–173; 30 min.
- Teacher's Manual pp. 86–87
- EL Adaptations Lesson 31

Practice

Prepare students for a variety of different questions in this Practice, all dealing with scatter diagrams and the straight line equation y = mx + b, which gives us *slope* and *intercept*, and from these we have information about the *trend*. Pay special attention to Questions 6 and 7.

DIFFERENTIATION OPTIONS

• Support Coach Teacher's Manual pp. 148–149, POWER UP: Practice and Assess (1–4). 10 min.

Performance Coach Teacher's Edition

pp. 64–65, with Lesson Practice section of Student Edition pp. 311–313. 10 min or as time permits.

• Readiness Student Edition pp. 314–315. 10 min.

LESSON FOCUS Instruction Coach

Lesson 32: Investigating Patterns of Association in Categorical Data

p. 174; 30 min. • Teacher's Manual pp. 88–89

• Student Edition

• EL Adaptations Lesson 32

Before the Lesson To prepare students for categorizing data, start a discussion about where students see data in categories – sports teams, most popular movies, population tables, etc. Make up several tables with local data, and ask about *frequency* and *relative frequency* of specific categories. Begin UNDERSTAND section as time permits.

DIFFERENTIATION OPTIONS

Make a Frequency Chart Break class into groups, and ask each group to collect data on a single topic and make a frequency chart. Compare charts. 10 min.

 Performance Coach Teacher's Edition

pp. 66–67, with Getting the Idea section and Example 1 of Student Edition pp. 314–315. 10 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 32: Investigating Patterns of Association in

- Student Edition p. 174; 20 min.
- Teacher's Manual pp. 88–89
- EL Adaptations Lesson 32

Understand

The UNDERSTAND page shows a two-way *frequency table*. Make each part of this exercise clear – the collection of data, the calculation of percent, and what *relative frequency* means.

DIFFERENTIATION OPTIONS

Make a Frequency Table Break class into groups, and ask each group to collect data and then produce a two-way frequency table. Ask for all computations as shown on UNDERSTAND page. Compare charts. 20 min.

• Performance Coach Teacher's Edition pp. 66–67, with Examples

2–3 of Student Edition pp. 315–316. 20 min.

• Readiness

LESSON FOCUS Instruction Coach Lesson 32: Investigating Patterns of Association in Categorical Data

Day 4

- Student Edition p. 175; 20 min.
- Teacher's Manual pp. 88–89
- EL Adaptations Lesson 32

Connect

Point out that a two-way frequency table is another way to show associations between two categories. In the Understand page, we saw an association between boy and girls and their agreement on a school issue. In Connect, explain the association between curfews and bedtimes. Compare scatter plots and two-way tables as ways of showing associations, and the virtues/deficits of each.

DIFFERENTIATION OPTIONS

Discuss Association Use the two-way tables from the previous day to discuss any associations. Break class into groups, and discuss the degree of association on their two-way tables. 20 min.

• Performance Coach Teacher's Edition pp. 66–67, with Examples 4–5

of Student Edition pp. 317– 319. 20 min.

• Readiness

LESSON FOCUS Instruction Coach

Lesson 32: Investigating Patterns of Association in Categorical Data

- Student Edition pp. 176–177; 30 min.
- Teacher's Manual pp. 88–89
- EL Adaptations Lesson 32

Practice

Read the directions to students as needed. Prepare students for each of the four sections of this Practice.

DIFFERENTIATION OPTIONS

Discuss the Practice Break class into groups to discuss results of Questions 1–11. Save questions 12 and 13 for the next day. 10 min.

Performance Coach Teacher's Edition

pp. 66–67, with Lesson Practice section of Student Edition pp. 321–325. 10 min or as time permits.

• Readiness

Waggle

Day 1



Day 5

Domain 5: Statistics and Probability

REVIEW AND ASSESS Instruction Coach

Domain 5 Review

- Student Edition pp. 178–179; 40 min.
- Teacher's Manual p. 115

Review Part 1

Go over Questions 1-6 and discuss. Ask students to take a look at instructions for the first half of the Review. Make sure all instructions are clear. See Progression Chart on TM pp. 80–81 for a view of progressions connecting the lessons of Domain 5.

DIFFERENTIATION OPTIONS

Performance Coach **Teacher's Edition**

p. 68 with Domain 5 Review of Student Edition pp. 326-328 as time permits.

REVIEW AND ASSESS Instruction Coach Domain 5 Review

 Student Edition pp. 179–181; 40 min.

Review Part 2 and

Performance Task

Ask students to take a look

at instructions for the second

half of the Review, Questions

7-10 on SE pp. 179-180. In

particular, clarify any doubts

with respect to Performance

Task (Exploring Variables) on

p. 181. See Progression

Chart on TM pp. 80-81

• Performance Coach

Teacher's Edition

Domain 5.

for a view of progressions

connecting the lessons of

DIFFERENTIATION OPTIONS

p. 68 with Domain 5 Review of Student Edition pp. 329-330 as time permits.

REVIEW AND ASSESS Instruction Coach **Domain 5 Assessment**

Day 3

- Assessments pp. 44–52: 40 min.
- Assessments Answer Key p. 15

Assessment Part 1 Have students complete Ouestions 1–15. Provide extra time for assessments and provide readers to read word problems to students.

DIFFERENTIATION OPTIONS

Provide extra time and assistance for students who qualify.

REVIEW AND ASSESS Instruction Coach **Domain 5 Assessment**

Day 4

- Assessments pp. 53–57: 40 min.
- Assessments Answer Key pp. 15–17

Assessment Part 2 Have students complete Ouestions 16–20. Provide clear explanation of questions.

DIFFERENTIATION OPTIONS

Provide extra time and assistance for students who qualify.

END OF YEAR REVIEW Instruction Coach **Review Domains 1–3**

Lessons 1–17

Support Coach Practice Tests 1 & 2

- Assessments pp. 64–101
- Assessments Answer Key pp. 26–38

Select key questions from Practice Tests 1 and 2 to review with students depending on their needs.

DIFFERENTIATION OPTIONS

Support Coach Assessments

pp. 44–55 for Performance Tasks A & B in Domains 1–3.

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End of Year Review

• Teacher's Manual p. 115

Day 2



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Day 1	Day 2	Day 3	Day 4	Day 5
End of Year Review				
END OF YEAR REVIEW Instruction Coach Review Domains 4 and 5 Lessons 18–32 Support Coach Practice Tests 1 & 2 Assessments pp. 64–101 Assessments Answer Key pp. 26–38 Select key questions from Practice Tests 1 and 2 to review with students depending on their needs. DIFFERENTIATION OPTIONS 6.56–61 for Performance Tasks A & B in Domains 4 and 5.	 SUMMATIVE ASSESSMENT Instruction Coach Assessments pp. 58–67; 40 min. Assessments Answer Key p. 18 Assessment Part 1 Have students complete Questions 1–25. Provide extra time for assessments and provide readers to read word problems to students. DIFFERENTIATION OPTIONS Provide extra time and assistance for students who qualify. 	 SUMMATIVE ASSESSMENT Instruction Coach Assessments pp. 67–76; 40 min. Assessments Answer Key pp. 18–19 Assessment Part 2 Have students complete Questions 26–50. Provide extra time for assessments and provide readers to read word problems to students. DIFFERENTIATION OPTIONS Provide extra time and assistance for students who qualify. 		
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