Each lesson supports multiple student expectations. These are listed at the beginning of each lesson and are labeled as readiness or supporting.

Analyzing Data

TEKS

- A.2 The student applies the mathematical process standards when using properties of linear functions to write and represent in multiple ways, with and without technology, linear equations, inequalities, and systems of equations.
 - (A) The student is expected to determine the domain and range of a linear function in mathematical problems; determine reasonable domain and range values for realworld situations, both continuous and discrete; and represent domain and range using inequalities. *Readiness Standard*
 - (C) The student is expected to write linear equations in two variables given a table of values, a graph, and a verbal description. *Readiness Standard*
- A.4 The student applies the mathematical process standards to formulate statistical relationships and evaluate their reasonableness based on real-world data.
 - (A) The student is expected to calculate, using technology, the correlation coefficient between two quantitative variables and interpret this quantity as a measure of the strength of the linear association. *Supporting Standard*
 - (B) The student is expected to compare and contrast association and causation in realworld problems. *Supporting Standard*
 - (C) The student is expected to write, with and without technology, linear functions that provide a reasonable fit to data to estimate solutions and make predictions for real-world problems. *Supporting Standard*

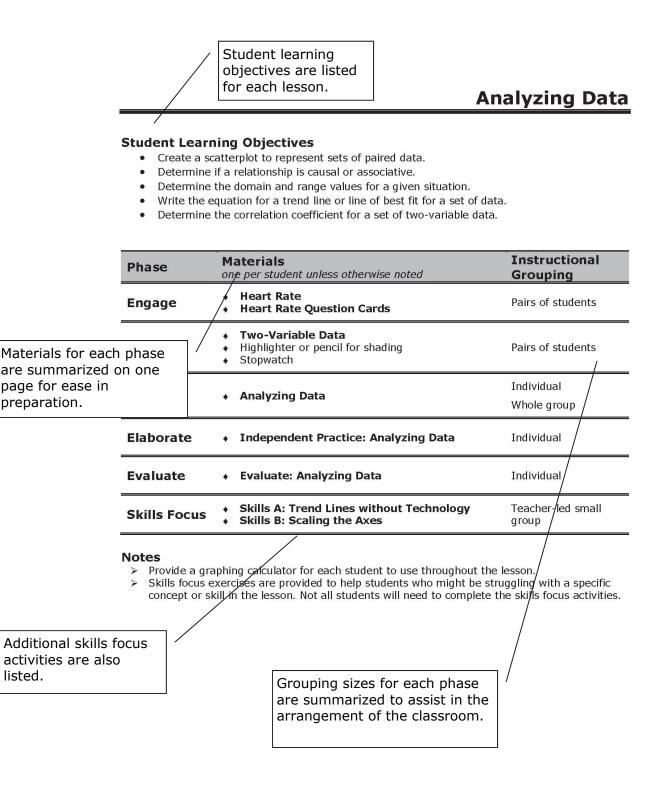
STAAR® Reporting Category

- 2 Describing and Graphing Linear Functions, Equations, and Inequalities The student will demonstrate an understanding of how to describe and graph linear functions, equations, and inequalities.
- **3** Writing and Solving Linear Functions, Equations, and Inequalities The student will demonstrate an understanding of how to write and solve linear functions, equations, and inequalities.

Each lesson identifies the reporting categories addressed within the lesson.

Accelerated Intervention, Algebra I

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Analyzing Data

Engage

- 1. Prompt students to cut out the **Heart Rate Question Cards**. Have students shuffle the cards and place them face down on the desk.
- 2. Prompt students to choose who will be Partner A and who will be Partner B. Prompt Partner A to randomly choose a card and read it aloud. Prompt students to discuss the answer to the question.

que	ston.						
Each phase includes detailed directions to	npt Partner A to attach the card to Heart Rate and reconused with his or her partner.						
implement the activity. Titles of	of manner until all of the cards have been used.						
activity masters and student pages are printed in bold for ease of reference.	ask the following discussion questions, use a structured pair-share strategy. An de follows. Prompt Partner A to respond and give his or her answer to Partner B for 20 ls without interruption. Prompt Partner B to respond during 10 seconds of rrupted response time. During this time, Partner B should report the important parts of r A's response. For the next question, prompt Partner B to talk and give his or her r to Partner A for 20 seconds without interruption. Prompt Partner A to respond during onds of uninterrupted response time. During this time, Partner A should report the ant parts of Partner B's response. After each question, identify one or two pairs to what they discussed.						
Discus • • • <i>Listen</i>	the discussion questions to debrief the activity. Solutions Do you think it is easier to see a relationship between two quantities in a table or in a graph? Why? What are the domain and range values for this situation? Why? What does the ordered pair (1, 75) mean in this situation? What did you predict her heart rate to be 5.5 minutes after exercising? How did you determine your prediction? For .	Teach	Each phase includes discussion questions to guide class discussion for that particular phase.				
 Use of vocabulary such as domain, paired values, relationships, and range. Understanding that the graph is comparing heart rate to elapsed time. Understanding that the ordered pair (1, Z5) represents that after 1 minute has passed, Mrs. Smith's heart rate 							
•	predictions.	Rather than a specific answer to each discussion question, what to listen for is listed in the <i>Listen For</i> section.					

Accelerated Intervention, Algebra I

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Analyzing Data

Listen For . . .

- Use of vocabulary such as correlation, domain, and range.
- Description of the relationships that exist between quantities, including association.

Evaluate

- 1. Distribute a copy of Evaluate: Analyzing Data to each student.
- 2. Prompt students to complete Evaluate: Analyzing Data independently.
- 3. Upon completion of **Evaluate: Analyzing Data**, use the following error analysis to assess student understanding of the concepts and procedures the class addressed in the lesson and provide additional support as needed.

Answer Key and Error Analysis for Evaluate: Analyzing Data

Question Number	Correct Answer	Reporting Category	TEKS		ncept Error		Pro	ocedu Error	Guess
1	D	2	A(4)(B)	А	В	С			
2	С	3	A(2)(A)	А	В	D			
3	А	3	A(2)(C)	В	С	D			
4	С	3	A(4)(C)	А	В	D			

Each selected-response item is labeled with the STAAR[®] reporting category and student expectation. Incorrect answer choices are classified according to type.

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Accelerated Intervention, Algebra I

Name:	p u le b a	Ten selected-response items are provided to assess student understanding in the cumulative lesson, and the Elaborate phase has been omitted in order to provide additional time to assess student understanding.						
A Land II only this m	Functions and Their the number (1-5) that describes ho	-			-	e		
B II and III only C I and III only D I, II and III Accelerated Intervention, Algebra 1		I am not comfortable with this and need additional	help.			I am comfortable with this and can explain it to others.		
	Identify domains and ranges of li functions.	near 1	2	3	4	5		
	Determine if a relationship is cau associative.	sal or 1	2	3	4	5		
	Determine if a relationship repres function or not.	sents a 1	2	3	4	5		
	Use a functional relationship to a questions in a real-world situation		2	3	4	5		
	Determine specific function value	s. 1	2	3	4	5		
Each cumulative lesson includes an		1	2	3	4	5		
Inventory Probe for students to ass student understanding of the conce			2	3	4	5		
in this module.	sent relationships using mo unional, graphs, diagrams, verbal descriptions, and equations.	dels, 1	2	3	4	5		
	Make decisions, predictions, and judgments in problem situations.	critical 1	2	3	4	5		
	Determine a trend line or a line of fit for a set of data.	f best 1	2	3	4	5		
	Use a line of best fit to make pre- about real-world data.	dictions 1	2	3	4	5		

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