Name: Langteau	Grading Quarter: 2	Week Beginning: Week 18
School Year: 2024-2025	Subject: Algebra	

Monday	Notes: Vocabulary: • Parallel lines • Perpendicular lines • Slope • Slope-intercept form • Point-slope form • Scatter plot • Correlation	Objective: Students will be able to identify and describe the slopes of parallel and perpendicular lines Lesson Overview: **Warm-up:** Review slope formula and examples . **Lesson:** a. Define parallel and perpendicular lines. b. Explain the slope relationships: parallel lines have equal slopes, perpendicular lines have slopes that are negative reciprocals. c. Examples of identifying slope relationships. **Guided Practice:** Identify relationships between given pairs of lines (15 minutes). **Independent Practice:** Worksheet on identifying parallel and perpendicular slopes.	Academic Standards: **A1.F-IF.B.6:** Calculate and interpret the average rate of change of a function over a specified interval. **A1.G-GPE.B.5:** Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems.

Tuesday	Notes:	Objective: Students will be able to write equations of parallel and perpendicular lines. Lesson Overview: **Warm-up:** Review slope formula and examples. **Lesson:** a. Define parallel and perpendicular lines. b. Explain the slope relationships: parallel lines have equal slopes, perpendicular lines have slopes that are negative reciprocals. Examples of identifying slope relationships. **Guided Practice:** Identify relationships between given pairs of lines. **Independent Practice:** Worksheet on identifying parallel and perpendicular slopes. **Exit Ticket:** Summarize the key concept learned today in one sentence.	Academic Standards: **A1.A-CED.A.2:** Create equations in two or more variables to represent relationships between quantities. **A1.A-REI.D.10:** Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane.

Wednesday	Notes:	Objective: Students will be able to interpret scatter plots and identify relationships between variables. Lesson Overview: **Warm-up:** Review slope formula and examples. **Lesson:** a. Define parallel and perpendicular lines. b. Explain the slope relationships: parallel lines have equal slopes, perpendicular lines have slopes that are negative reciprocals. c. Examples of identifying slope relationships. **Guided Practice:** Identify relationships between given pairs of lines. **Independent Practice:** Worksheet on identifying parallel and perpendicular slopes. **Exit Ticket:** Summarize the key concept learned today in one sentence.	Academic Standards: **A1.S-ID.B.6:** Represent data on a scatter plot, describe how the variables are related, and use the graph to identify correlations. **A1.S-ID.C.7:** Interpret the slope and intercept of a linear model in the context of the data.
Thursday	Notes:	Objective: Students will be able to apply their understanding of parallel and perpendicular lines and scatter plots to solve real-world problems Lesson Overview: **Warm-up:** Review slope formula and examples. **Activity:** Group activity applying slope and correlation to a real-world scenario, such as designing a city map with parallel streets and scatter plot analysis of traffic data (30 minutes). **Independent Practice:** Solve a set of mixed problems involving parallel/perpendicular lines and scatter plots (15 minutes). **Exit Ticket:** Summarize the key concept learned today in one sentence.	Academic Standards: **A1.F-LE.A.1:** Distinguish between situations that can be modeled with linear functions and those that cannot. **A1.F-LE.B.5:** Interpret the parameters in a linear function in terms of a context.

Friday	Notes:	Objective: Students will demonstrate mastery of parallel and perpendicular lines and scatter plots through a quiz and collaborative activity. Lesson Overview: **Warm-up:** Review slope formula and examples. **Quiz:** Assess understanding of parallel/perpendicular lines and scatter plots (20 minutes). **Reflection:** Students write a brief paragraph about what they learned this week.	Academic Standards: **A1.A-CED.A.2:** Create equations in two variables to represent relationships and graph the equations. **A1.G-GPE.B.5:** Use slope criteria to solve problems involving parallel and perpendicular lines.