Algebra 1 Block Schedule Guidance

Unit 2: Linear Equations, Inequalities, and Systems

Block	Original Lessons	Plan to Do	If Time Allows	Notes
1	Check Your Readiness Lesson 1 Planning a Pizza Party	CYR 1.1 1.2* 1.3 Lesson 1 Synthesis 1.4		
2	Lesson 2 Writing Equations to Model Relationships (Part 1) Lesson 3 Writing Equations to Model Relationships (Part 2)	2.1 2.2 2.3* 2.4 3.1 3.2* 3.3 Lesson 3 Synthesis 2.5	2.2	Lessons 2 and 3 work to achieve the same goal: writing expressions and equations to represent situations.
3	Lesson 4 Equations and Their Solutions Lesson 5 Equations and Their Graphs	4.1 4.2 4.3 Lesson 4 Synthesis 5.1 5.2* 5.3 Lesson 5 Synthesis 5.4	4.2	Lessons 4 and 5 are about understanding solutions to equations and then visualizing those solutions using linear graphs. Once it is clear that students understand what it means to be a solution to an equation in a given context from Lesson 4, move ahead to Lesson 5 to reinforce that understanding using the graphs.

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4	Lesson 6 Equivalent Equations Lesson 7 Explaining Steps for Rewriting Equations	6.1 6.2* 6.3 7.2* 7.3 Lesson 7 Synthesis 6.4	7.1	Lessons 6 and 7 are about understanding what moves are valid for creating equivalent equations.
5	Lesson 8 Which Variable to Solve for? (Part 1) Lesson 9 Which Variable to Solve for? (Part 2)	8.1 8.2 8.3* 9.2* 9.3 Lesson 9 Synthesis 9.4	9.1	This pair of lessons explores writing equivalent equations in two variables and solving for a particular variable.
6	Lesson 10 Connecting Equations to Graphs (Part 1) Lesson 11 Connecting Equations to Graphs (Part 2)	10.1 10.2* 10.3 L10 Synthesis 11.2* 11.3 Lesson 11 Synthesis 11.4	11.1	These two lessons connect linear equations in two variables to graphical representations of those equations.

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7	Lesson 12 Writing and Graphing Systems of Linear Equations Lesson 13 Solving Systems by Substitution	12.1 12.2* 12.3 Lesson 12 Synthesis 13.1 13.2 Lesson 13 Synthesis 12.4	13.3	In this pair of lessons, students revisit what they learned about systems of equations in grade 8 and develop new techniques to solve them. Activity 13.3 can be considered practice and shortened if needed for time.
8	Lesson 14 Solving Systems by Elimination (Part 1) Lesson 15 Solving Systems by Elimination (Part 2)	14.1 14.2* 14.3 15.2* 15.3 Lesson 14 Synthesis Lesson 15 Synthesis 15.4	15.1	These two lessons introduce the elimination method for solving systems of two linear equations. Combine the syntheses for the two lessons into one discussion at the end of the activities.

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9	Lesson 16 Solving Systems by Elimination (Part 3) Lesson 17 Systems of Linear Equations and Their Solutions	16.1 16.2* 16.3 16.4 (optional) Lesson 16 Synthesis 17.1 17.2* 17.3 17.4 (optional) Lesson 17 Synthesis 17.5	16.4 17.4	While we have marked the focus on Activity 17.2, if students are struggling with solving systems of equations using any methods, use focus time on the activities in Lesson 16 to give students additional practice.
10	Mid-Unit Assessment Lesson 18 Representing Situations with Inequalities	MUA 18.1 18.2 18.3* Lesson 18 Synthesis 18.4		If time after the assessment is an issue, move more quickly through Activity 18.3 asking students to only write one or two inequalities for the constraints in question 1.
11	Lesson 19 Solutions to Inequalities in One Variable Lesson 20 Writing and Solving Inequalities in One Variable	19.1 19.2* 19.4 20.2 20.3* Lesson 20 Synthesis 20.5	19.1 19.3 (optional) 19.5 (optional) 20.1 20.4 (optional)	Lessons 19 and 20 examine inequalities with one variable. It is essential that students understand the meaning of inequalities and their solutions in context before reasoning abstractly about different ways to solve inequalities. The next few lessons are about inequalities using two variables, so a grasp of these lessons is foundational to that work.

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12	Lesson 21 Graphing Linear Inequalities in Two Variables (Part 1) Lesson 22 Graphing Linear Inequalities in Two Variables (Part 2)	21.1 21.2* 21.3 22.1 22.2* 22.3 Lesson 22 Synthesis 22.5	22.4 (optional)	During the synthesis, address any misconceptions about the < symbol's meaning to shade below or to the left of the boundary line using the synthesis from Lesson 21 as a guide.
13	Lesson 23 Solving Problems with Inequalities in Two Variables Lesson 24 Solutions to Systems of Linear Inequalities in Two Variables	23.1 23.2 24.2* 24.3 Lesson 24 Synthesis 24.5	24.1 23.3 (optional) 24.4 (optional)	
14	Lesson 25 Solving Problems with Systems of Linear Inequalities in Two Variables Lesson 26 Modeling with Systems of Inequalities in Two Variables	25.1 25.2 25.3* Lesson 25 Synthesis 26.2 25.4		In this block, students have a chance to practice what they have learned from the unit. Lesson 25 focuses on solving systems of linear inequalities using the Information Gap routine.
15	End-of-Unit Assessment	EUA	26.3	Following the assessment, students could use the time to work on the project in Activity 26.3.

Unused cool-downs: 3.4, 4.4, 7.4, 8.4, 10.4, 13.4, 14.4, 16.5, 19.5, 21.4, 23.4