Algebra 1 Block Schedule Guidance

Unit 4: Functions

Block	Original Lessons	Plan to Do	If Time Allows	Notes
1	Check Your Readiness Lesson 1 Describing and Graphing Situations	CYR 1.1 1.2 1.3* Lesson 1 Synthesis 1.4		
2	Lesson 2 Function Notation Lesson 3 Interpreting & Using Function Notation	2.1 2.2* 2.3 Lesson 2 Synthesis 3.1 3.2* Lesson 3 Synthesis 3.4	3.3	The introduction and use of function notation are the themes for this block.
3	Lesson 4 Using Function Notation to Describe Rules (Part 1) Lesson 5 Using Function Notation to Describe Rules (Part 2)	4.1 4.2* 4.3 5.2* Lesson 5 Synthesis 5.4	5.1 5.3 (optional)	These activities center around turning rules into functions and connecting the representations of equations, graphs, tables, and function values. If Activity 5.3 is not used, consider using Activity 5.2 to introduce graphing with technology.

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4	Lesson 6 Features of Graphs Lesson 7 Using Graphs to Find Average Rate of Change	6.1 6.2* 6.3 Lesson 6 Synthesis 7.1 7.2* 7.3 Lesson 7 Synthesis 7.4	7.3	This block gives students a chance to recognize key features on graphs of functions including maxima and minima, then focuses their attention on the average rate of change given two points on the function.
5	Lesson 8 Interpreting and Creating Graphs Lesson 9 Comparing Graphs	9.1 8.2* 8.3 Lesson 8 Synthesis 9.2 9.4* Lesson 9 Synthesis 9.5	8.1 8.4 (optional) 8.5 (optional) 9.3 (optional)	This pairing of lessons asks students to create graphs from stories and situations, then examine graphs to compare values and average rates of change in context. There are a few optional activities that could be added in for practice as needed.
6	Mid-Unit Assessment	MUA		

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7	Lesson 10 Domain and Range (Part 1) Lesson 11 Domain and Range (Part 2) Lesson 12 Piecewise Functions	10.1 10.2* 10.3* 11.2 12.1 12.2* Lesson 10 Synthesis Lesson 11 Synthesis 11.4	10.4 (optional) 11.1 11.3 12.3 12.4 (optional)	In this block, students are introduced to the idea of domain and range and to piecewise functions. They examine graphs to determine the domain and range of functions. Combine the syntheses for the first two lessons into a single discussion following the activities. During the discussion, ask students to identify the piecewise graphs.
8	Lesson 13 Absolute Value Functions (Part 1) Lesson 14 Absolute Value Functions (Part 2)	13.1 13.2 14.2* 14.3 Lesson 14 Synthesis 14.5	13.3 14.1 14.4 (optional)	In these activities, students examine a specific piecewise function, absolute value, and explore shifting it on the coordinate plane.
9	Lesson 15 Inverse Functions Lesson 16 Finding and Interpreting Inverse Functions	15.1 15.2* 15.3 16.1 16.2 Lesson 15 Synthesis 15.4	16.4 (optional)	In this block, students are introduced to inverse functions then practice finding and interpreting them in context.

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10	Lesson 17 Writing Inverse Functions to Solve Problems Lesson 18 Using Functions to Model Battery Power	17.1 17.2 17.3* 16.3 Lesson 17 Synthesis 17.4	18.2 (optional) 18.3 (optional)	For the last instructional block of the unit, students make use of inverse functions to solve problems. Additional activities are included that focus on applying the lessons from this unit to battery charge on a phone.
11	End-of-Unit Assessment	EUA		

Unused cool-downs: 2.4, 4.4, 6.4, 8.6, 10.5, 12.5, 13.4, 16.5