Grade 8 Block Schedule Guidance

Unit 2: Dilations, Similarity, and Introducing Slope

Block	Original Lessons	Plan to Do	If Time Allows	Notes
1	Check Your Readiness Lesson 1 Projecting and Scaling	CYR 1.1 1.2* 1.3 Lesson 1 Synthesis 1.4		Activity 1.1 is the first time the Number Talk routine is used in this course. Many of the items from the Check Your Readiness assessment are addressed in Lesson 1.
2	Lesson 2 Circular Grid Lesson 3 Dilations with no Grid	2.1 2.2* 2.3 Lesson 2 Synthesis 3.1 3.2 3.3* Lesson 3 Synthesis 3.4	2.4 (optional)	Students dilate points using a circular grid and then without any grid. The optional activity provides a smoother transition between the two methods of dilating by removing only part of the circular grid. Consider using the optional activity if there is time.
3	Lesson 4 Dilations on a Square Grid Lesson 5 More Dilations	4.1 4.2* 4.3 Lesson 4 Synthesis 5.1 5.2 Lesson 5 Synthesis 5.3		This block is about dilating on a square grid. The first half of the block uses an unlabeled grid. Students use coordinates as addresses points on the grid in the second half.

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4	Lesson 6 Similarity Lesson 7 Similar Polygons	6.1 6.2* 6.3 Lesson 6 Synthesis 7.1 7.2 Lesson 7 Synthesis 7.4	6.4 (optional) 7.3	This block introduces similar figures by looking at rigid transformations along with dilations. After finding some sequences of transformations to show similarity, students look more closely at angles within the similar shapes to notice their congruence. In addition to what is given in the warm-up, monitor for students who say that the angles of the triangles all have the same measure. It is ok to move on if nobody mentions this fact, but it will be useful in this lesson. The optional activity shows that multiple sequences of transformations can be used to show similarity. If there is time, it can help provide students with more fluency in finding these sequences.
5	Lesson 8 Similar Triangles Lesson 9 Side Length Quotients in Similar Triangles	9.1 8.2 9.2* 9.3 Lesson 8 Synthesis Lesson 9 Synthesis 9.4	8.1 8.3 (optional)	Students examine angles and side lengths in similar triangles throughout this block. Combine the syntheses from Lessons 8 and 9 at the end of the activities. The optional activity gives students additional practice recognizing similar triangles combined into a shape.

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6	Lesson 10 Meet Slope Lesson 11 Writing Equations for Lines	10.1 10.2* 10.3 Lesson 10 Synthesis 11.2 11.3* Lesson 11 Synthesis 11.4	11.1 10.4 (optional)	In this block, students use similar triangles to explore slopes of lines and write equations for lines. The optional activity gives students practice matching numerical values for the slope to lines drawn on an unlabeled square grid.
7	Lesson 12 Using Equations for Lines Lesson 13 The Shadow Knows	13.1 12.2* 12.3 13.2 13.3 13.4 Lesson 12 Synthesis 12.4	12.1	Students begin the block with additional practice writing equations of lines based on slope triangles. Then, they apply similar triangles to find the height of tall objects using their shadows. For the sake of time, consider using either Activity 13.2 or 13.4. Activity 13.2, Objects and Shadows, explores the connection between the height of an object and a shadow using a picture and can be done inside if the weather is not cooperative or if it is difficult for the students to go outside to make their own measurements. Activity 13.4, The Height of a Tall Object, gives students the opportunity to measure their own shadows to explore the same relationship.
8	End-of-Unit Assessment	EUA		

Unused cool-downs: 2.5, 4.4, 6.5, 8.4, 10.5