

Grade 5 Unit 7 - Shapes on the Coordinate Plane

Section A - Lessons 1-3

Unit Goal:

- Students plot coordinate pairs on a coordinate grid and classify triangles and quadrilaterals in a hierarchy based on properties of side length and angle measure. They generate, identify, and graph relationships between corresponding terms in two numeric patterns, given two rules, and represent and interpret real world and mathematical problems on a coordinate grid.
- [Grade 5 Unit 7 I Can Statements](#)
- [Grade 5 Unit 7 Centers](#)
- [Unit 7 Slide Deck \(Made by Britnee Wright- NOT UPDATED to Version 1\)](#)

Section A Goals:

- Locate points on a coordinate grid.

**Lessons/resources denoted with an asterisk are Desmos activities*

IM Lesson	L1: Explore the Coordinate Grid	L2: Points on the Coordinate Grid	L3: Plot More Points
Ar Math Content Standards	5.G.A.1	5.G.A.1	5.G.A.1
AR Math Practice Standards	MP. 6	MP 6	MP. 7
Accessibility Supports	Engagement	Representation	Action/Expression, MLR8
Vocabulary Focus	Coordinate grid, axes, horizontal axis, vertical axis	coordinates	
Lesson Resources	L1 - Slide Deck L1 - Student Tasks* Can You Draw It- Recording Sheet Explore the Coordinate Grid Cards Activity 1: Create a set of cards from the blackline master for each group of 2	L2 - Slide Deck L2 - Student Tasks* What's the Point Activity 1: Create a set of cards from the blackline master for each group of 2	L3 - Slide Deck L3 - Student Tasks*
Assessment	Cool Down* Pre-Unit Practice Problems	Cool Down* Section A Practice Problems	Cool Down* Section A Checkpoint
Suggested Centers/ Materials/ Resources	Can You Draw It (Stage 5) Supporting Which One? (Stage 5) Supporting	Can You Draw It (Stage 5) Supporting Which One? (Stage 5) Supporting	Can You Draw It (Stage 6) Addressing Which One? (Stage 6) Addressing How Are They the Same? (Stage 4) Supporting

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Section B - Lessons 4-8

Goals:

- Classify triangles and quadrilaterals in hierarchy based on angle measurements and side lengths.

**Lessons/resources denoted with an asterisk are Desmos activities*

	L4: Sort Quadrilaterals	L5: Trapezoids	L6: Hierarchy of Quadrilaterals	L7: Rectangles and Squares	L8: So
Standards	5.G.B.3, 5.G.B.4	5.G.B.4	5.G.B.3, 5.G.B.4	5.G.B.3, 5.G.B.4	5.G.B.
Standards	MP. 6, 7	MP. 6, 7	MP. 2	MP. 7	MP. 3
Reports	Representation	Engagement, MLR8	Representation	Action and Expression, MLR8	Engagement, MLR8
Focus	Quadrilaterals, perpendicular, parallel	trapezoid			
Resources	L4 - Slide Deck L4 - Student Tasks* Dry erase markers Sheet protectors Guess Which One Card Sort Quadrilaterals (Grade 5) Activity 1: Consider giving each student a sheet protector and a dry erase marker so that students can easily reuse the blackline master Activity 2: Create a set of cards from the blackline master for each group of 2	L5 - Slide Deck L5 - Student Tasks*	L6 - Slide Deck L6 - Student Tasks* Materials from previous lesson Toothpicks Activity 1: Each group of 2 needs 6 toothpicks	L7 - Slide Deck L7 - Student Tasks* Quadrilateral Clues Activity 1: -create a set of cards from blackline master for each group of 2 -gather diagram from previous lesson	L8 - Slide Deck L8 - Student Tasks* Card Sort Triangles Activity 1: Create a set of cards Activity 2: Triangle cards
	Cool Down*	Cool Down*	Cool Down*	Cool Down* Section B Practice Problems	Cool Down* Section B Check
Materials/Resources	Can You Draw It (Stage 6) Addressing Which One? (Stage 6) Addressing How Are They the Same? (Stage 4) Supporting	Can You Draw It (Stage 6) Addressing Which One? (Stage 6) Addressing How Are They the Same? (Stage 4) Supporting	Which One? (Stage 7) Addressing How Are They the Same? (Stage 4-5) Addressing	Which One? (Stage 7) Addressing How Are They the Same? (Stage 4-5) Addressing	Which One? (Stage 7) Addressing How Are They the Same? (Stage 4-5) Addressing

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Section C - Lessons 9-13

Goals:

- Generate, identify, and graph relationships between corresponding terms in two patterns, given a rule.

- Represent and interpret real world and mathematical problems on a coordinate grid.

**Lessons/resources denoted with an asterisk are Desmos activities*

IM Lesson	L9: Generate Patterns	L10: Interpret Relationships	L11: Patterns and Ordered Pairs	L12: Represent Problems on the Coordinate Grid	L13: Perimeter and Area of Rectangles
Ar Math Content Standards	5.OA.B.3	5.OA.B.3	5.OA.B.3	5.G.A.2, 5.OA.A.2	5.G.A.2, 5.NBT.B.7, 5.OA.B.3
AR Math Practice Standards	MP. 7, 8	MP. 2	MP. 8	MP. 2, 7	MP. 7, 8
Accessibility Supports	Action and Expression	Representation, MLR7	Action/Expresion, MLR8	Engagement	Representation, MLR8
Vocabulary Focus					
Lesson Resources	L9 - Slide Deck L9 - Student Tasks*	L10 - Slide Deck L10 - Student Tasks*	L11 - Slide Deck L11 - Student Tasks*	L12 - Slide Deck L12 - Student Tasks* Coins Activity 1: Gather pennies, nickels, dimes and quarters to show students during launch	L13 - Slide Deck L13 - Student Tasks*
Assessment	Cool Down *	Cool Down *	Cool Down *	Cool Down * Section C Practice Problems Section C Checkpoint	Cool Down * End of Unit Assessment
Suggested Centers/ Materials/ Resources	Can You Draw It? (Stage 7) Addressing Picture Books (Stage 3) Addressing Can You Draw It? (Stage 4)Supporting	Can You Draw It? (Stage 7) Addressing Picture Books (Stage 3) Addressing Can You Draw It? (Stage 4)Supporting	Can You Draw It? (Stage 7) Addressing Picture Books (Stage 3) Addressing Can You Draw It? (Stage 4)Supporting	Can You Draw It? (Stage 7) Addressing Picture Books (Stage 3) Addressing	Can You Draw It? (Stage 7) Addressing Picture Books (Stage 3) Addressing

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