# Lesson 6: La jerarquía de los cuadriláteros

### Standards Alignments

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| --- | --- |
| Addressing | 5.G.B.3, 5.G.B.4 |
| Building Towards | 5.G.B.3 |

### Teacher-facing Learning Goals

* Classify parallelograms in a hierarchy based on angle measurements and side lengths.
* Explain why a square is also a rhombus.

### Student-facing Learning Goals

* Exploremos la jerarquía de los cuadriláteros.

### Lesson Purpose

The purpose of this lesson is for students to continue to build the hierarchy of quadrilaterals. Students use categories and subcategories to see that if a shape is a square it is also a rhombus and also a parallelogram.

The purpose of this lesson is for students to first relate squares and rhombuses and then relate rectangles and parallelograms. They see that if a shape is a square then it is also a rhombus and if a shape is a rectangle then it is also a parallelogram. But there are rhombuses that are not squares and there are parallelograms that are not rectangles. Students record these observations on the anchor chart from previous lessons. This gives students a chance to organize the quadrilaterals in a hierarchy and highlight the relationships they see between the properties of the shapes they worked with in this lesson. Students should have access to straight edges, protractors, and patty paper throughout this lesson.

When students define shapes and make explicit connections between shapes and categories, they reason abstractly and quantitatively (MP2).

### Access for:

###  Students with Disabilities

* Representation (Activity 2)

### Instructional Routines

MLR3 Clarify, Critique, Correct (Activity 2), Notice and Wonder (Warm-up)

### Materials to Gather

* Toothpicks: Activity 1

### Required Preparation

* Gather diagram from a previous lesson.

### Lesson Timeline

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| --- | --- |
| Warm-up | 10 min |
| Activity 1 | 15 min |
| Activity 2 | 20 min |
| Lesson Synthesis | 10 min |
| Cool-down | 5 min |

### Teacher Reflection Question

What surprised you about student thinking in Activity 2?

## Cool-down

(to be completed at the end of the lesson) 5min

Los rombos vistos como paralelogramos

### Standards Alignments

|  |  |
| --- | --- |
| Addressing | 5.G.B.3 |

### Student-facing Task Statement

Explica por qué un rombo siempre es un paralelogramo. Usa la cuadrícula si te ayuda.



### Student Responses

A rhombus is always a parallelogram because its opposite sides are parallel. If I draw a rhombus on a grid I can see that the opposite sides will never meet even if the lines are extended in both directions.

