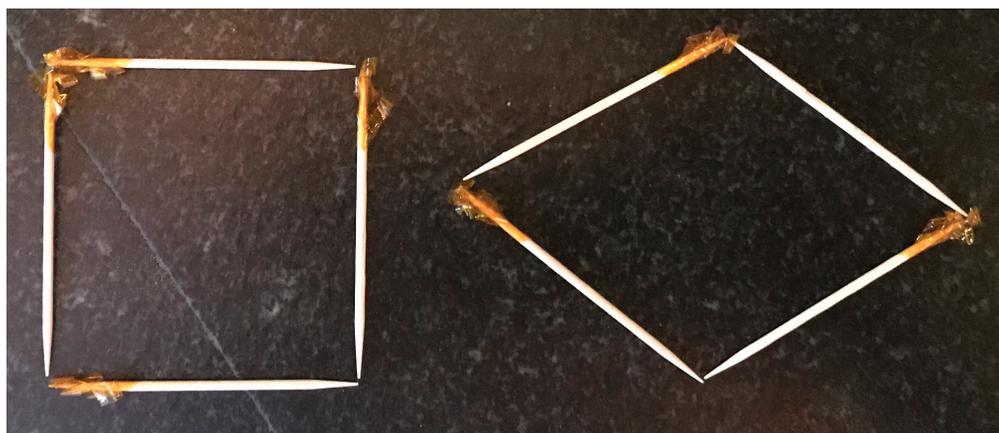


# Lesson 6: Hierarchy of Quadrilaterals

- Let's explore the hierarchy of quadrilaterals.

## Warm-up: Notice and Wonder: Squares and Rhombuses

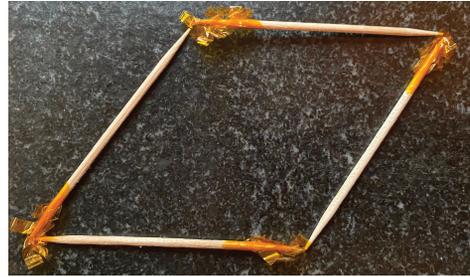
What do you notice? What do you wonder?



## 6.1: Shapes with Toothpicks

1. Build a square with your toothpicks. How do you know it is a square?

2. Use the same four toothpicks to build this shape. What stayed the same? What changed?



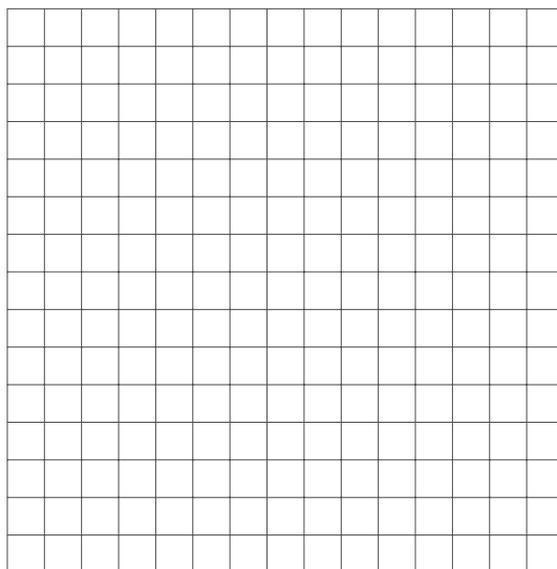
3. Build a rectangle with six toothpicks. How do you know it is a rectangle?

4. Use the same six toothpicks to build this shape. What stayed the same? What changed?



## 6.2: Three Quadrilaterals

1. Draw 3 different quadrilaterals on the grid, making sure at least one of them is a parallelogram.



2. For each of your quadrilaterals determine if it is a:
  - square
  - rhombus
  - rectangle
  - parallelogram

Explain or show your reasoning.

3. Draw a rhombus that is not a square. Explain or show how you know it is a rhombus but not a square.
4. Draw a rhombus that is a square. Explain or show how you know it is a rhombus and a square.
5. Diego says that it is impossible to draw a square that is not a rhombus. Do you agree with him? Explain or show your reasoning.