

Name: \_\_\_\_\_



# THINK / I NOTICE / I WONDER

Directions: Observe the graphic below and then share, in writing, what you think, notice, and wonder!

**Golden Ratio**  
science & art

1,618

Fibonacci:  
0, 1, 1, 2, 3, 5, 8, 13, ...

Photo:

$\frac{a+b}{a} = \frac{b}{a} \approx 1,618$

The infographic features various geometric diagrams including a triangle with side lengths 1, 1, and 1.618, a pentagram, a spiral with d=8, a series of rectangles, and a large rectangle with a golden spiral. It also includes a grid with points and a diagram showing the relationship between the golden ratio and the Fibonacci sequence.

**I Think:**

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**I Notice:**

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**I Wonder:**

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## Key:

Engaging in *think-notice-wonder* writing activities at the start of a math class is a great way to ignite student thinking, spark creativity, and build anticipation.

Even if students are not directly engaged in mathematical problem-solving, their curiosity and interest will carry on throughout the day's lesson.

Be mindful that your kids will need some time to get used to these kinds of activities, but after a week or so, you'll be pleasantly surprised by the spike in engagement, boost in student enthusiasm and high quality of responses!

Learn more at [www.mashupmath.com/blog/tnw](http://www.mashupmath.com/blog/tnw)