



# MEASURE BY Color™

## RULER INTRODUCTION

1. Have students look over the ruler.
  - Ask students what they see.
  - Prompt them to notice the different colors and how they build on top of one another.
  - Point out to them that the color lines are also different sizes. (Bring to their attention that the color lines get thicker as the measurement gets larger.)
2. Let students ask questions about the ruler. How is this ruler different?
3. Ask students to look at the back of the ruler. Explain how this guide will help them.
4. Go through colors and measurements with students.
  - Start with **BLACK**  $\frac{1}{16}$ " – have students look at the measurement description and explain that there will be **16** of these black lines per inch.
  - Explain and answer any questions students may have.
5. Repeat with each colored line.
  - Make sure to always bring attention to the color, thickness, and number of lines for each measurement.
6. Let's practice! — Ask students...

• What color is <b>1"</b> ( <b>BLUE</b> )	How many inches are on this ruler? (12)
• What color is $\frac{1}{2}$ " ( <b>GREEN</b> )	How many $\frac{1}{2}$ " are in one inch? (2)
• What color is $\frac{1}{4}$ " ( <b>YELLOW</b> )	How many $\frac{1}{4}$ " are in one inch? (4)
• What color is $\frac{1}{8}$ " ( <b>RED</b> )	How many $\frac{1}{8}$ " are in one inch? (8)
• What color is $\frac{1}{16}$ " ( <b>BLACK</b> )	How many $\frac{1}{16}$ " are in one inch? (16)
7. Go over these until students have a good understanding of the concept. Encourage your students to look at the back of their ruler for help with understanding the different increments and how they relate to each other.
8. Be sure to always bring together the number of colored lines to the meaning of each measurement.
  - Example: There are **8 RED** lines and each line represents  $\frac{1}{8}$ ".

Only after students comprehend that each colored line represents a different measurement and how many lines equal that measurement should you move on to measuring objects.

### More Helpful Tips

- The Measure By Color™ ruler starts at the edge!
- For circumstances such as color blindness, be sure to utilize the size differences (thickness) to distinguish between the increments.
- Remind students to reference the guide on the back of the ruler. This feature is intended to assist with classroom time management.
- For more advanced classes, this ruler is capable of being used to demonstrate and visualize fractions.
- Consider using this ruler for cross-curriculum activities in the classroom.