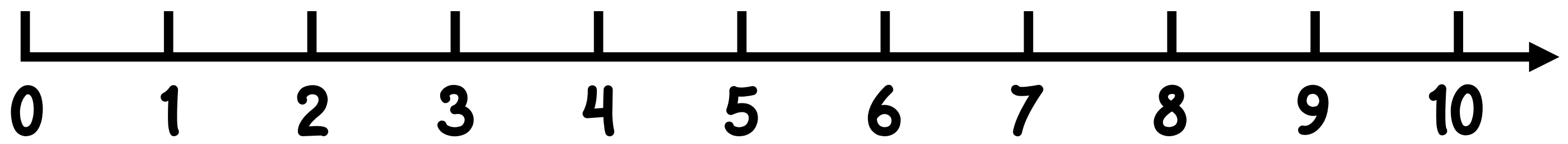


Learning With Number Lines

To support math learning!

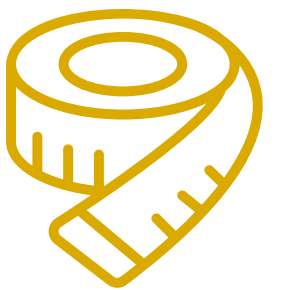
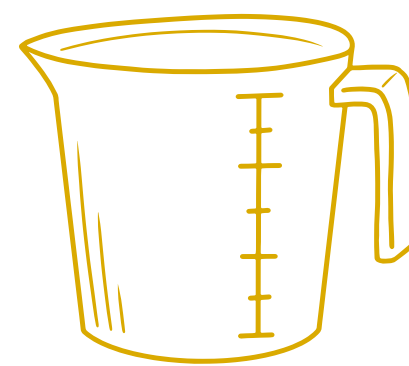
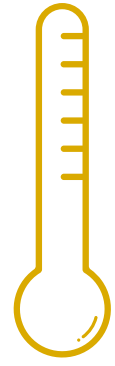
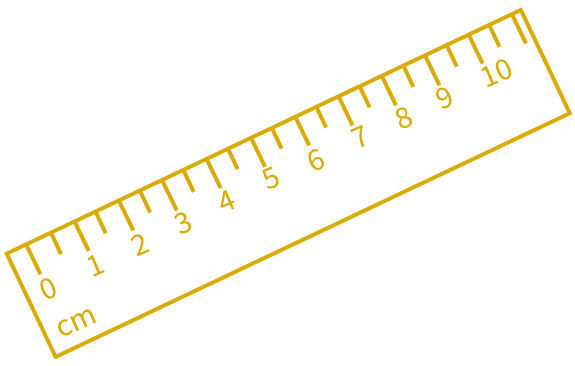


How Do Number Lines Help Us With Math?

Using number lines - where numbers are represented along a line in order - help with:

- Learning the counting sequence
- Understanding magnitude
- Applying strategies for addition and subtraction
- Using measuring tools

Experience using number lines can help us to think about and work with numbers, too! This is because they give us a way of mentally picturing numbers to compare quantities and solve problems.



Number Lines For All Ages

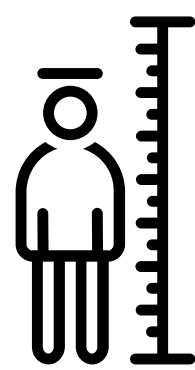
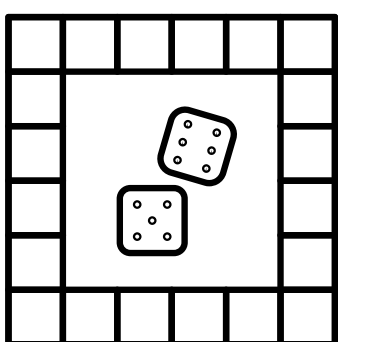
Number lines can be used for all stages of math learning!

- Preschoolers can use number lines for whole numbers, up to 10 or 20.
- As children enter kindergarten and 1st grade, they can explore numbers going up to 100.
- Continuing into later elementary school, number lines with smaller increments can be used to teach fractions and decimals.
- Even older children can use number lines to help understand the concept of negative numbers.

Using Number Lines At Home

Have you noticed any real-world number lines? You can use these to help children learn math!

Many board games have numbered spaces, or you can even create your own! To help children learn the number sequence, have them say the numbers on the spaces as they move. Older children can use addition to figure out what space they will reach before moving their piece.



Make a height chart for your child, measuring their height and recording their age. As they add new heights, ask what they notice about the numbers. Do their ages and heights both increase? Can they make predictions about what their height will be the next time?

Next time you are using liquid measuring cup, point out the number line on the side. What do the different dashes between numbers mean? If you need 1 $\frac{1}{2}$ cups of water, what line do you fill it to? What line will the water reach if you pour in another cup, or another $\frac{1}{2}$ cup?

