

Oh No! The Numbers Fell Off Our Number Line (ordering a number line)

Lesson Goal:

Students place the numbers 0 to 10 on the number line in order from lowest to highest.
Lesson can be differentiated by using different numbers.

Concepts:

- Counting and counting on (ordinality)
- Number recognition
- Sequencing
- Proportional Reasoning

Materials:

Use a sentence strip to create a number line.
Clothespins and number cards 0-10.

Activation: Whole Group

“Our numbers have fallen off...we need to put them back in order...”

- Start with an empty 0-10 number lines with clothes pegs on to represent intervals.
- Have students take a stack of number cards that are unordered and place them on a number line so that they are in order.

Variation: Clothes pegs can be difficult for students to manipulate, therefore different materials are suggested (i.e. velcro spots on number line and numbers with velcro on the back).

Key Questions:

- Will students be able to order numbers on a number line from 0 to 10?
- Why did you put it there? How did you know to put it there?
- Do we all agree?
- Why wouldn't we put it here?

Materials:

Use a sentence strip to create a number line.
Zip lock bags with clothespins and number cards 0-10, 0-5, 5-15.
Suggestion: Avoid using string for this task – as it is difficult to work with for students.

Lesson: In partners or groups of 3

- Students are given a zip lock bag with number cards inside, a sentence strip number line with the starting and ending number labelled and other clothes pegs to use to attach their number cards to their line.
- Some zip lock bags include numbers 0-5, 0-10, 5-15.
- The number line from the activation lesson remains for students to refer to.
- Students are instructed to place the numbers on the number line so that they are in order.
- Teachers circulate to ask groups members key questions and to observe their thinking.



These four year olds were working with a number line from 5 to 15 as a form of differentiation.

