

Whiteboard Number Line

Use Root's Coding Level 1 blocks to teach a lesson on number lines with basic single-digit addition and/or subtraction.

Teacher Prep

- Open the Number Line (0-3) Project from the Root Coding App
- Either before or at the beginning of class, place a marker in Root and place Root on your magnetic whiteboard.
- Press Play to watch Root draw a Root-sized number line.

With the Class

- Introduce the number line as a tool that helps us count and practice addition and subtraction
- "We can tell Root to help us count on the number line using Code Blocks! When we want to ADD to a number, we use the Move Forward Block to make Root move forward along the line. When we want to TAKE AWAY from a number, we use the Move Backward Block to make Root drive backward along the line."
- Demonstrate how to edit the Move Block by tapping on the block and dragging Root all the way backward. Edit it back by dragging Root all the way forward.
- Try a math problem together! "Let's code Root to count $5 + 3$!" Place Root to start at number five. Drag out three Move Forward Blocks and press Play.



Code Level(s):

1

Subject(s):

Math
Computer Science

Time:

15 mins.

Grade Level(s):

K-1

Students:

1-3

Supplies:

- Root Robot
- Device with Root Coding App
- Dry Erase Marker
- Whiteboard or large, long smooth surface for Root to drive and draw on

Educational Standards:

CC.SS.NATH.CONTENT

- K.OA.A.1
- 1.OA.C.5

