

Measurement with Ollie Otter

Grade Level: **1st Grade** Subject: **Mathematics**

Standards

1. **OA 1.** Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.
2. **NBT 2.** Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand special cases (the following objectives).
3. **NBT 2a.** 10 can be thought of as a bundle of ten ones - called a “ten”.
4. **NBT 2b.** The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.
5. **NBT 2c.** The numbers from 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).
6. **NBT 3.** Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>$, $=$, and $<$.

Objectives

1. Students will measure Ollie and their classmates in inches.
2. Students will count each inch line on the measuring chart and group them into sets of 10.
3. Students will count marks 11-19 as 1-9 starting after 10.
4. Students will count how many groups of 10 inches tall their classmates are.
5. Students will determine how many students are $>$, $=$, and $<$ 4'9”.

Materials

Ollie measurement practice sheet, measuring poster or tape measurer, rulers, pencils

Introduction

Engage the students in a discussion to review the safety concepts presented in the Ollie Otter presentation. The three points to focus on are road construction (slow down), seat belt safety (always buckle up), and booster seat requirements (under 4'9" or nine years old). Discover what the students recall and reiterate the importance of being safe when riding in a vehicle.

Remind the students the importance Ollie place on height and "Belts to Bones." Show them a measuring poster similar to the poster used to measure a select few of students during the presentation. (This can be replaced by any type of measurement tool available.) Emphasize that the 4'9" mark is the height you need to be for a seat belt to fit correctly when using it in the car (Belts to Bones).

Procedure

- Give students Ollie measurement sheets and rulers.
- "Measure these three pictures of Ollie using your ruler. Write the number of inch lines you count on the line below him."
- Using the Ollie Measuring Poster, count with the students to determine how many inches are there before you reach the arrow on the poster marking 4'9". From here, have the students start counting at 1 after counting the first 10, and go through 9 to show that 19 is 9 ones after 10. Count off sets of 10 with the students, and then have the students count the groups of 10 as 10, 20, 30, etc.
- Allow students to measure themselves or each other in order to determine how many inches tall they are and how many sets of 10 that equals, and tell them to write it on their paper. If they are under the arrow, tell them to write "<4'9"" and if they are over, ">4'9"" and "=" if they are right at the line.

Closing

Discuss with the class what they have learned from the activity and how it applies to measurement and being safe in the vehicle. Lead the students in discussing how many of them do/do not need to be in a booster seat to remain safe while riding in the vehicle. **Remember: Under 4'9" - It's Booster Time!**

Assessment and Follow-Up

Collect the Ollie measurement practice sheets to check for comprehension. On future days in the classroom, ask students how many of them ride in a booster seat, and see if they remember the height requirement for a booster seat.

Ask them to tell their parents what they learned, and if they haven't already, allow them to draw a picture or write a story about Ollie and how to be safe in a car. Send their artwork to:

TTU BusinessMedia Center
C/O Ollie Otter
P.O. Box 5103 JH 425
1105 N. Peachtree Avenue
Cookeville, TN 38505

and we will mail you a set of coloring books. Students can view their art on our website at <http://www.seatbeltvolunteer.org/inbox>.