

Second Grade Trailblazers Unit 5 “Going to Great Lengths”

State Goals and Objectives Met in Unit 5:

1.01, 2.01, 4.01

North Carolina Standard Course of Study:

<http://www.ncpublicschools.org/curriculum/mathematics/scos/2003/k-8/16grade2>

How Math Trailblazers meets the state’s goals (Click to pg 17):

<http://www.kendallhunt.com/uploads/2/CORR-NC-MTB2.pdf>

What your child will do:

1. Students use links to find objects whose lengths fall within given intervals.
2. Students identify the locations of numbers on a number line.
3. Students create and use their own meter tape to explore centimeters and meters.
4. Students roll toy vehicles down an incline and measure the rolls. The lab focuses on fixed variables and estimating.
5. Adventure book story about two students who challenge one another to an activity similar to the lab the class has just finished.

Unit Vocabulary

<i>interval</i>	<i>larger than</i>	<i>smaller than</i>	<i>centimeter</i>	<i>meter</i>
<i>standard unit of measure</i>	<i>fixed (controlled) variable</i>	<i>median</i>	<i>trial</i>	

Second grade glossary link: http://www.kendallhunt.com/uploads/2/MTB_Gr2_Glossary.pdf

Manipulatives and Supplies

What your child will use:

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Envelope to store flash cards	na	Per student: meterstick (optional), paste or glue, scissors	Each group of four: 2 metersticks, ramp, 4 blocks or books to elevate ramp, 4 toy vehicles, masking tape or small <i>post it</i> notes	na
Chain of 50 links (in 10-link segments of alternating colors)				

Unit Assessment Indicators

What your child is expected to learn:

- Can student estimate length?
- Can student measure length in centimeters and meters?
- Can student compare and order numbers using a number line?
- Can student represent the elements of a laboratory investigation in a drawing?

- Can student collect and organize data in a table?
- Does student demonstrate fluency with the addition facts in Group C? (see table below)

Fact Groups		
Unit	Group	Focus Facts
3	A	0+1, 1+1, 2+1, 3+1, 0+2, 2+2, 3+2, 4+2
4	B	3+0, 4+0, 5+0, 4+1, 5+1, 6+1, 5+2, 6+2, 5+3
5	C	3+3, 3+4, 4+4, 4+5, 5+5, 5+6, 5+7, 6+6
6	D	1+7, 2+7, 1+8, 2+8, 3+6, 3+7, 3+8, 4+6, 4+7, 4+8
7	E	6+7, 7+7, 7+8, 5+8, 6+8, 8+8, 9+9, 9+10
8	F	9+1, 9+2, 9+3, 9+4, 10+1, 10+2, 10+3, 10+4
9	G	9+5, 9+6, 9+7, (+8, 10+5, 10+6, 10+7, 10+8
10	ALL GROUPS	Review all groups

Student Friendly Books:

- *A Giraffe and a Half* by Shel Silverstein

Websites to Explore

- Unit 5: Measurement - <http://www.funbrain.com/measure/index.html>
- Unit 5: Practice adding – <http://www.rainforestmaths.com/> Click on level C and choose “Addition” choose dominoes, number line, or colored dots for starters.

How you can help your child:

- ✓ In a future unit your child will measure the lengths that toy cars, roller skates, and other objects roll. If you have a toy vehicle or roller skate you are willing to lend to our class collection, please send it to school. Thank you. ☺
- ✓ Practice using the triangle flashcards of fact groups A - C!
- ✓ Help your child learn to tell time with a nondigital clock by putting one in his or her bedroom. Assist your child in reading the clock.

Computer programs:

Unit 5—Going to Great Lengths

Discover Time provides practice in telling time to the nearest hour, half-hour, quarter hour, and five-minute intervals.

Graphers is a data-graphing tool appropriate for young students.

Kid Pix helps students draw, write, and illustrate math concepts.

Math Concepts One . . . Two . . . Three! estimates and measures time, money, length, temperature, and mass.

Number Sense explores counting, estimation, comparing, and ordering numbers.

Mighty Math Zoo Zillions practices locating numbers and adding and subtracting on the number line.

Money Challenge provides practice with money.

Numbers Recovered provides practice with bar graphs, comparing numeric expressions, and working with place value.

Sunbuddy Math Playhouse is a memory game involving counting, tallies, and analog and digital clocks.

Trudy's Time & Place House explores time, the calendar, maps, directions, and geography.