

Third Grade
Trailblazers Unit 6

“More Adding and Subtracting”

North Carolina Standard Course of Study

<http://www.ncpublicschools.org/curriculum/mathematics/scos/2003/k-8/21grade3>

MTB Correlation to NCSCOS

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

Unit Activities

- Students will partition, add, and subtract two- and three-digit numbers
- Students trace an outline of their coats or jackets onto a sheet of paper and use base-ten pieces to measure the area covered by the outline. Students order the areas of the coats from largest to smallest.
- Students represent addition using base-ten pieces. They develop an addition algorithm as a shortcut for adding three- and four-digit numbers.
- Students represent subtraction using base-ten pieces. They develop an addition algorithm as a shortcut for subtracting three- and four-digit numbers.
- Students explore estimation strategies and round to the nearest ten and hundred.
- Students read a story about the great Italian mathematician Fibonacci.
- Students practice addition with two-, three-, and four-digit numbers and discover number patterns as they explore palindromes.
- Students play a game during which they attempt to make the largest or smallest answer to addition and subtraction problems by strategically placing the digits on a playing board.

Unit Vocabulary

Fewest Pieces Rule	Estimate	Estimation	Front-end estimation	Nice numbers
Rounding	Abacus	Digits		

Third grade glossary link: <http://www.kendallhunt.com/index.cfm?PID=234&PGI=0>

Unit Manipulatives/Supplies

Calculator	Base-ten pieces/1 set per student pair	2 yards by 1 yard sheet of paper/student group	Crayons	30 Index cards
------------	--	--	---------	----------------

Scissors	Tape	Colored markers		
----------	------	-----------------	--	--

Unit Assessment Indicators

- Can students represent addition and subtraction using base-ten pieces?
- Can students add using paper and pencil?
- Can students subtract using paper and pencil?
- Can students estimate sums and differences?
- Can students determine the reasonableness of a solution?
- Can students solve problems involving addition and subtraction?

Unit Literature

- *The 500 hats of Bartholomew* Dr. Seuss
- *Palindromes and Anagrams* Howard W. Bergerson
- *Henry Huggins* Beverly Cleary
- *A Million Fish...More or Less* Patricia C. McKissack
- *Too Hot to Hoot* Marvin Terban

Unit Software

- *Carmen Sandiego Math Detective* provides practice with math facts, estimation, ordering numbers, and word problems.
- *Discover Time* provides practice in telling time to the nearest hour, half-hour, quarter hour, and five-minute intervals.
- *Grouping and Place Value* provides opportunities for students to group objects by twos, fives, and tens.
- *Math Arena* is a collection of math activities that reinforces many math concepts.
- *Math Concepts One...Two...Three!* Provides practice estimating, rounding, ordering, comparing, and writing numbers.
- *Math Munchers Deluxe* provides practice in basic facts in an arcade-like game.
- *Mighty Math Calculating Crew* poses short answer questions about number operations, 3-dimensional shapes, and money skills.
- *Money Challenge* provides practice with money.
- *Numbers Recovered* provides practice comparing numeric expressions and working with place value.
- *Numbers Recovered* provides practice with bar graphs.
- *The Penny Plot* provides practice with counting coins.
- *Ten Tricky Tiles* provides practice with number facts through engaging puzzles.

Websites to Explore

- Rainforest Math – Click on level C or D and choose “Operations and Calculation – Addition or Subtraction” on row one of the menu.
<http://www.rainforestmaths.com/>
- Gamequarium – Choose activities from the list to practice addition.
<http://www.gamequarium.com/addition.html>

- Gamequarium – Choose activities from the list to practice subtraction.
<http://www.gamequarium.com/subtraction.html>

You Can Help Your Child

- Encourage your child to estimate your grocery bill.
- Your child learned to play the *Digits Games* at school. Ask him/her to play the game at home with you.
- Continue to help your child practice all the subtraction facts using the *Subtraction Flash Cards*.
- Estimate the child's weight then use a scale to find out the actual weight. Estimate weight of different small objects around the house.