

Third Grade
Trailblazers Unit 4

“Place Value Concepts”

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 partition two-digit numbers in more than one way. They represent these groups with connecting cubes and discuss special grouping of tens and ones.
- Students represent quantities with base-ten pieces.
- Students use base-ten pieces to model two-digit addition with regrouping. A standard addition algorithm is introduced.
- Students arrange numbers in order.
- Students practice telling time to the nearest five minutes. Students tell and write time on analog and digital clocks.
- Students solve word problems about time.

Unit Vocabulary

Base-ten board	Bits	Digit	Fewest Pieces Rule	Multidigit number
Partition	Recording sheet	Skinnies	Flats	Packs
regrouping	Bubble sort	Decreasing order	Increasing order	A.M.
P.M.	Analog clock	Digital clock		

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

Unit Manipulatives/Supplies

100 connecting cubes/student pair	Base-ten pieces: 2 packs, 14 flats, 30 skinnies, 50 bits/student pair	Tape	Envelope for storing flash cards – 1/student	25 Index cards OR 25 sheets of Paper
Scissors	Brass fastener			

Unit Assessment Indicators

- Can students partition large numbers into two and three parts and represent them with number sentences?
- Can students represent five-digit numbers using base-ten pieces, words, symbols, and place value charts?
- Can students read and write large numbers (to the thousands)?
- Can students compare and order large numbers (to the thousands)?
- Can students represent addition problems using base-ten pieces?
- Can students tell time to the nearest five minutes?

Unit Literature

- *Clocks and More Clocks* Pat Hutchins

Unit Software

- *Grouping and Place Value* provides practice grouping objects by 2s, 5s, and 10s.
- *Math Concepts One...Two...Three!* Develops number sense through practice with estimation, rounding, ordering, comparing, and writing numbers.
- *Mighty Math Calculating Crew* poses short answer questions about number operations and money skills.
- *Money Challenge* provides practice working with money
- *Numbers Recovered* provides practice with place value.
- *The Penny Pot* provides practice with counting coins.
- *Schoolhouse Rock!* Develops number sense and math facts skills.
- *Ten Tricky Tiles* provides practice with number facts through engaging puzzles.

Websites to Explore

- Rainforest Math – Click on level C or D and choose “Numbers to 999” and “Addition” on the top row of the menu.
<http://www.rainforestmaths.com/>
- Rainforest Math – Click on level C or D and choose “Time” on Row 3
<http://www.rainforestmaths.com/>

You Can Help Your Child

- Ask your child to show you how to write some numbers between 1 and 9999 using Base-ten Shorthand.
- Your child will learn to tell time to the nearest five minutes. Ask your child to read a clock with hands (analog clock) at different times of the day.
- Continue to help your child practice the subtraction facts in Groups 5 and 6 using flash cards.