

Oct. Gr.3 Unit 3: Subtraction

Content Area: **Math**
Course(s):
Time Period: **October**
Length: **4-5 Weeks**
Status: **Obsolete**

Unit Overview

Students will use mental math to solve subtraction problems, estimate differences, use addition to check a subtraction problem.

Subtract using regrouping and subtracting 4 digit numbers.

Enduring Understandings

Subtraction involves repeated calculations, subtract the ones, then tens, then hundreds as so on.

Essential Questions

How do we subtract using mental math, estimating differences, using addition to check, regroup and subtract 4 digit numbers?

Instructional Strategies & Learning Activities

- **Pacing Guide**
Suggested Pacing

Instruction	11 days
Review/Assessment	2 days
Total*	13 days

- *Includes additional time for remediation and differentiation.
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Lesson	Objective	Material & Manipulatives	Vocabulary	Standard
Lesson 1 <i>pp. 61-66</i> Addition Properties	Use addition properties to add whole numbers.	• connecting cubes	Properties of Addition Associative, Commutative, Identity mental math	3.NBT.2 Additional Cluster MP 1, 2, 3, 4, 6, 7

Lesson 2 <i>pp. 67-72</i> Patterns in the Addition Table	Identify patterns in the addition table. • 0-5 number cube • counters	parentheses pattern	3.OA.9 Major Cluster MP 3, 4, 5, 7 3.OA.9 Major Cluster MP 2, 3, 4, 5, 7, 8 3.NBT.2 Additional Cluster MP 1, 2, 3, 6
Lesson 3 <i>pp. 73-78</i> Addition Patterns	Use place value to identify addition patterns. • Work Mat 1 • base-ten blocks		3.NBT.2 Additional Cluster MP 1, 2, 3, 4, 8 3.NBT.2 Additional Cluster MP 1, 2, 3, 4, 8 3.NBT.2 Additional Cluster MP 1, 2, 3, 6, 7
Lesson 4 <i>pp. 79-84</i> Add Mentally	Use mental addition strategies. • base-ten blocks		3.NBT.2 Additional Cluster MP 1, 2, 3, 4, 8 3.NBT.2 Additional Cluster MP 1, 2, 3, 6, 7
Check My Progress Lesson 5 <i>pp. 87-92</i> Estimate Sum	Estimate sums using rounding. • base-ten ones blocks • Work Mat 2	estimate	3.NBT.2 Additional Cluster MP 1, 2, 3, 4, 8 3.NBT.2 Additional Cluster MP 1, 2, 3, 4, 8 3.NBT.2 Additional Cluster MP 1, 2, 3, 6, 7
Lesson 6 <i>pp. 93-98</i> Hands On: Use Models to Add	Use models to explore adding three-digit numbers. • 0-5 number cube • 5-9 number cube • base-ten blocks • Work Mat 1	reasonable regroup	3.NBT.2 Additional Cluster MP 2, 3, 4, 6, 7
Lesson 7 <i>pp. 99-104</i> Add Three-Digit Numbers	Add three-digit numbers and use estimation to check for reasonableness. • base-ten blocks • Work Mat 1	reasonable regroup unknown	3.NBT.2 Additional Cluster MP 1, 2, 3, 6, 7
Check My Progress Lesson 8 <i>pp. 107-112</i> Add Four-Digit Numbers	Add four-digit numbers with regrouping. • base-ten blocks	bar diagram	3.NBT.2 Additional Cluster MP 1, 2, 3, 4, 5 3.NBT.2 Additional Cluster MP 1, 2, 3
Lesson 9 <i>pp. 113-118</i> Problem-Solving Investigation: Reasonable Answers Fluency Practice My Review and Reflect	Check answers for reasonableness.		

WRK.9.2.5.CAP	Career Awareness and Planning
WRK.9.2.5.CAP.1	Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.
WRK.9.2.5.CAP.2	Identify how you might like to earn an income.
WRK.9.2.5.CAP.3	Identify qualifications needed to pursue traditional and non-traditional careers and occupations.
WRK.9.2.5.CAP.4	Explain the reasons why some jobs and careers require specific training, skills, and certification (e.g., life guards, child care, medicine, education) and examples of these requirements.
TECH.9.4.8.CT	Critical Thinking and Problem-solving
TECH.9.4.8.CT.3	Compare past problem-solving solutions to local, national, or global issues and analyze the factors that led to a positive or negative outcome. An essential aspect of problem solving is being able to self-reflect on why possible solutions for solving problems were or were not successful.

Technology and Design Integration

Students will interact with Smartboard, Chromebooks and document camera.

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WRK.9.2.5.CAP.1	Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.
WRK.9.2.5.CAP.2	Identify how you might like to earn an income.
WRK.9.2.5.CAP.3	Identify qualifications needed to pursue traditional and non-traditional careers and occupations.
WRK.9.2.5.CAP.4	Explain the reasons why some jobs and careers require specific training, skills, and certification (e.g., life guards, child care, medicine, education) and examples of these requirements.
TECH.9.4.8.CT	Critical Thinking and Problem-solving
TECH.9.4.8.TL	Technology Literacy
TECH.9.4.8.TL.2	Gather data and digitally represent information to communicate a real-world problem (e.g., MS-ESS3-4, 6.1.8.EconET.1, 6.1.8.CivicsPR.4).
TECH.9.4.8.TL.3	Select appropriate tools to organize and present information digitally.

Interdisciplinary Connections

Math leveled readers, "Food, Energy and You"

LA.RI.3.1	Ask and answer questions, and make relevant connections to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.
LA.RI.3.4	Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or subject area.
LA.RI.3.5	Use text features and search tools (e.g., key words, sidebars, hyperlinks) to locate information relevant to a given topic efficiently.
LA.RI.3.7	Use information gained from text features (e.g., illustrations, maps, photographs) and the

words in a text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).

LA.RI.3.10

By the end of the year, read and comprehend literary nonfiction at grade level text-complexity or above, with scaffolding as needed.

Differentiation

Each My Math unit throughout the series offers "approaching level", "on level" and "Beyond level" differentiated instructional hands-on choices, as well as ELL differentiated support. Please refer to the teacher edition for the activities.

Modifications & Accommodations

IEP and 504 accommodations will be followed.

Benchmark Assessments

Aimsweb Assessment, Chapter Pretests, Dreambox

Formative Assessments

Teacher observation

Student conferences

Discussion

Activities

games

homework

Summative Assessments

Instructional Materials

See materials listed above

Standards

MA.3.OA.D.9	Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.
MA.3.NBT.A.2	Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.