



# Dairy Math!

## STANDARDS

Grades 2-4 Mathematics and English Language Arts  
Common Core State Standards \*

### MATHEMATICS STANDARDS

#### SECOND GRADE

#### Activity 1

#### Activity 2

#### Activity 3

#### OPERATIONS & ALGEBRAIC THINKING

**Represent and solve problems involving addition and subtraction.**

CCSS.MATH.CONTENT.2.OA.A.1

Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

√

√

**Add and subtract within 20.**

CCSS.MATH.CONTENT.2.OA.B.2

Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.

√

√

#### NUMBER & OPERATIONS IN BASE TEN

**Understand place value.**

CCSS.MATH.CONTENT.2.NBT.A.3

Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.

√

√

**Use place value understanding and properties of operations to add and subtract.**

CCSS.MATH.CONTENT.2.NBT.B.5

Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

√

√

CCSS.MATH.CONTENT.2.NBT.B.7

Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.

√

√

\* © Copyright 2010 National Governors Association Center for Best Practices and Council of Chief State School Officers. All rights reserved.



## MEASUREMENT & DATA

### Work with time and money.

CCSS.MATH.CONTENT.2.MD.C.7

Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.

√

## THIRD GRADE

### Activity 1

### Activity 2

### Activity 3

## OPERATIONS & ALGEBRAIC THINKING

### Represent and solve problems involving multiplication and division.

CCSS.MATH.CONTENT.3.OA.A.1

Interpret products of whole numbers, e.g., interpret  $5 \times 7$  as the total number of objects in 5 groups of 7 objects each.

√

√

CCSS.MATH.CONTENT.3.OA.A.3

Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

√

√

### Multiply and divide within 100.

CCSS.MATH.CONTENT.3.OA.C.7

Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that  $8 \times 5 = 40$ , one knows  $40 \div 5 = 8$ ) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.

√

√

## NUMBER & OPERATIONS IN BASE TEN

### Use place value understanding and properties of operations to perform multi-digit arithmetic

CCSS.MATH.CONTENT.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.

√

√

## MEASUREMENT & DATA

### Solve problems involving measurement and estimation.

CCSS.MATH.CONTENT.3.MD.A.1

Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.

√

### Geometric measurement: understand concepts of area and relate area to multiplication and to addition.

CCSS.MATH.CONTENT.3.MD.C.5

Recognize area as an attribute of plane figures and understand concepts of area measurement.

√



© 2021 YMI, Inc.

**OPERATIONS & ALGEBRAIC THINKING****Use the four operations with whole numbers to solve problems.**CCSS.MATH.CONTENT.4.OA.A.1

Interpret a multiplication equation as a comparison, e.g., interpret  $35 = 5 \times 7$  as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.

√

√

**NUMBER & OPERATIONS IN BASE TEN****Use place value understanding and properties of operations to perform multi-digit arithmetic.**CCSS.MATH.CONTENT.4.NBT.B.4

Fluently add and subtract multi-digit whole numbers using the standard algorithm.

√

√

CCSS.MATH.CONTENT.4.NBT.B.5

Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

√

√

**MEASUREMENT & DATA****Solve problems involving measurement and conversion of measurements.**CCSS.MATH.CONTENT.4.MD.A.2

Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.

√

√



## ENGLISH LANGUAGE ARTS STANDARDS

### SECOND GRADE

#### Activity 1

#### Activity 2

#### Activity 3

#### READING: INFORMATIONAL TEXT

**Key Ideas and Details:**

CCSS.ELA-LITERACY.RI.2.1

Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text.

√

√

√

**Craft and Structure:**

CCSS.ELA-LITERACY.RI.2.4

Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area

√

√

√

#### READING: FOUNDATIONAL SKILLS

**Phonics and Word Recognition:**

CCSS.ELA-LITERACY.RF.2.3

Know and apply grade-level phonics and word analysis skills in decoding words.

√

√

√

**Fluency:**

CCSS.ELA-LITERACY.RF.2.4

Read with sufficient accuracy and fluency to support comprehension.

√

√

√

#### SPEAKING & LISTENING

**Comprehension and Collaboration:**

CCSS.ELA-LITERACY.SL.2.1

Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups.

√

√

√

#### LANGUAGE

**Conventions of Standard English:**

CCSS.ELA-LITERACY.L.2.1

Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

√

√

√

**Knowledge of Language:**

CCSS.ELA-LITERACY.L.2.3

Use knowledge of language and its conventions when writing, speaking, reading, or listening.

√

√

√

**Vocabulary Acquisition and Use:**

CCSS.ELA-LITERACY.L.2.4

Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 2 reading and content, choosing flexibly from an array of strategies.

√

√

√



## ENGLISH LANGUAGE ARTS STANDARDS

### THIRD GRADE

#### Activity 1

#### Activity 2

#### Activity 3

#### READING: INFORMATIONAL TEXT

##### **Key Ideas and Details:**

##### CCSS.ELA-LITERACY.RI.3.1

Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.

√

√

√

##### **Craft and Structure:**

##### CCSS.ELA-LITERACY.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.

√

√

√

##### **Integration of Knowledge and Ideas:**

##### CCSS.ELA-LITERACY.RI.3.7

Use information gained from illustrations (e.g., maps, photographs) and the words in a text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).

√

#### READING: FOUNDATIONAL SKILLS

##### **Phonics and Word Recognition:**

##### CCSS.ELA-LITERACY.RF.3.3

Know and apply grade-level phonics and word analysis skills in decoding words.

√

√

√

##### **Fluency:**

##### CCSS.ELA-LITERACY.RF.3.4

Read with sufficient accuracy and fluency to support comprehension.

√

√

√

#### SPEAKING & LISTENING

##### **Comprehension and Collaboration:**

##### CCSS.ELA-LITERACY.SL.3.1

Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.

√

√

√

#### LANGUAGE

##### **Conventions of Standard English:**

##### CCSS.ELA-LITERACY.L.3.1

Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

√

√

√

##### **Knowledge of Language:**

##### CCSS.ELA-LITERACY.L.3.3

Use knowledge of language and its conventions when writing, speaking, reading, or listening.

√

√

√

##### **Vocabulary Acquisition and Use:**

##### CCSS.ELA-LITERACY.L.3.4

Determine or clarify the meaning of unknown and multiple-meaning word and phrases based on grade 3 reading and content, choosing flexibly from a range of strategies.

√

√

√



FOURTH GRADE	Activity 1	Activity 2	Activity 3
<b>READING: INFORMATIONAL TEXT</b>			
<b>Key Ideas and Details:</b> <u>CCSS.ELA-LITERACY.RI.4.1</u> Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.	√	√	√
<b>Craft and Structure:</b> <u>CCSS.ELA-LITERACY.RI.4.4</u> Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.	√	√	√
<b>Integration of Knowledge and Ideas:</b> <u>CCSS.ELA-LITERACY.RI.4.7</u> Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears.	√	√	√
<b>READING: FOUNDATIONAL SKILLS</b>			
<b>Phonics and Word Recognition:</b> <u>CCSS.ELA-LITERACY.RF.4.3</u> Know and apply grade-level phonics and word analysis skills in decoding words.	√	√	√
<b>Fluency:</b> <u>CCSS.ELA-LITERACY.RF.4.4</u> Read with sufficient accuracy and fluency to support comprehension.	√	√	√
<b>SPEAKING &amp; LISTENING</b>			
<b>Comprehension and Collaboration:</b> <u>CCSS.ELA-LITERACY.SL.4.1</u> Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.	√	√	√
<b>LANGUAGE</b>			
<b>Conventions of Standard English:</b> <u>CCSS.ELA-LITERACY.L.4.1</u> Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.	√	√	√
<b>Knowledge of Language:</b> <u>CCSS.ELA-LITERACY.L.4.3</u> Use knowledge of language and its conventions when writing, speaking, reading, or listening.	√	√	√
<b>Vocabulary Acquisition and Use:</b> <u>CCSS.ELA-LITERACY.L.4.4</u> Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 4 reading and content, choosing flexibly from a range of strategies.	√	√	√



© 2021 YMI, Inc.