## **SADLIER**

# **Common Core Progress Mathematics**

Aligned to the

# Colorado Academic Standards in Mathematics

# **First Grade**

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# Sadlier Common Core Progress Mathematics, Grade 1, Aligned to the Colorado Academic Standards in Mathematics

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**Grade Level Expectation: First Grade** 

# 1. Number Sense, Properties, and Operations

#### **Prepared Graduates:**

Understand the structure and properties of our number system. At their most basic level numbers are abstract symbols that represent real-world quantities

#### Concepts and skills students master:

1. The whole number system describes place value relationships within and beyond 100 and forms the foundation for efficient algorithms

First <b>G</b> ra	de Evidence Outcomes	SADLIER COM	IMON CORE PROGRESS MATHEMATICS, GRADE 1
Students	can:		
a. Count t	o 120 (CCSS: 1.NBT.1)		
i.	Count starting at any number less than 120. (CCSS: 1.NBT.1)	Lesson 11	Count to 120—pp. 96–103
ii.	Within 120, read and write numerals and represent a number of objects with a written numeral. (CCSS: 1.NBT.1)	Lesson 12	Read and Write Numbers—pp. 104–111
o. Represe 1.NBT.2	ent and use the digits of a two-digit number. (CCSS:		
i.	Represent the digits of a two-digit number as tens and ones.1 (CCSS: 1.NBT.2)	Lesson 13	Understand Place Value: Tens and Ones—pp. 112–119
ii.	Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <. (CCSS: 1.NBT.3)	Lesson 14	Compare Numbers—pp. 120–127
iii.	Compare two sets of objects, including pennies, up to at least 25 using language such as "three more or three fewer" (PFL)	Lesson 14	Compare Numbers—pp. 120–127
	ce value and properties of operations to add and t. (CCSS: 1.NBT)		
i.	Add within 100, including adding a two-digit number and a one-digit number and adding a two-digit number and a multiple of ten, using concrete models or drawings, and/or the relationship between addition and subtraction. (CCSS: 1.NBT.4)	Lesson 15	Add Two-Digit Numbers—pp. 128–135
ii.	Identify coins and find the value of a collection of two coins (PFL)	Lesson 21	<b>Money</b> —pp. 186–193
iii.	Mentally find 10 more or 10 less than any two-digit number, without counting; explain the reasoning used. (CCSS: 1.NBT.5)	Lesson 16	Find 10 More and 10 Less—pp. 136–143

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**Grade Level Expectation: First Grade** 

EVIDENCE OUTCOMES	SADLIER COM	IMON CORE PROGRESS MATHEMATICS, GRADE 1
subtract multiples of 10 in the range 10-90 from nultiples of 10 in the range 10-90 (positive or zero lifferences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between ddition and subtraction. (CCSS: 1.NBT.6)	Lesson 17	Subtract Multiples of 10—pp. 144–161
Relate addition and subtraction strategies to a written method and explain the reasoning used. CCSS: 1.NBT.4 and 1.NBT.6)	Lesson 15	Add Two-Digit Numbers—pp. 128–135  Subtract Multiples of 10—pp. 144–161
	ubtract multiples of 10 in the range 10-90 from nultiples of 10 in the range 10-90 (positive or zero ifferences), using concrete models or drawings nd strategies based on place value, properties of perations, and/or the relationship between ddition and subtraction. (CCSS: 1.NBT.6)	ubtract multiples of 10 in the range 10-90 from nultiples of 10 in the range 10-90 (positive or zero ifferences), using concrete models or drawings and strategies based on place value, properties of perations, and/or the relationship between ddition and subtraction. (CCSS: 1.NBT.6)  The late addition and subtraction strategies to a priction method and explain the reasoning used.

# 1. Number Sense, Properties, and Operations

## **Prepared Graduates:**

> Apply transformation to numbers, shapes, functional representations, and data

#### Concepts and skills students master:

2. Number relationships can be used to solve addition and subtraction problems

FIRST GRADE EVIDENCE OUTCOMES		SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1	
Students	can:		
	ent and solve problems involving addition and tion. (CCSS: 1.OA)		
i.	Use addition and subtraction within 20 to solve word problems. (CCSS: 1.OA.1)	Lesson 1	Problem Solving: Addition—pp. 10–17
	word problems. (CC33. 1.OA.1)	Lesson 2	Problem Solving: Subtraction—pp. 18–25
ii.	Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20. (CCSS: 1.OA.2)	Lesson 3	Problem Solving: Addition of Three Numbers—pp. 26–33
	properties of operations and the relationship in addition and subtraction. (CCSS: 1.OA)		
i.	Apply properties of operations as strategies to add and subtract. (CCSS: 1.OA.3)	Lesson 4	Apply Properties of Operations—pp. 34-41
ii.	Relate subtraction to unknown-addend problem. (CCSS: 1.OA.4)	Lesson 5	Relate Addition and Subtraction Facts—pp. 42-49
c. Add and	d subtract within 20. (CCSS: 1.OA)		
i.	Relate counting to addition and subtraction. (CCSS: 1.OA.5)	Lesson 6	Relate Counting to Addition and Subtraction—pp. 50–57
ii.	Add and subtract within 20 using multiple strategies. (CCSS: 1.OA.6)	Lesson 7	Addition and Subtraction Facts to 10 (fluency)—pp. 58–65
		Lesson 8	Addition and Subtraction Facts to 20—pp. 66–73

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**Grade Level Expectation: First Grade** 

FIRST GRADE EVIDENCE OUTCOMES		SADLIER COM	SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1	
iii.	Demonstrate fluency for addition and subtraction within 10. (CCSS: 1.OA.6)	Lesson 7	Addition and Subtraction Facts to 10 (fluency)—pp. 58–65	
		Lesson 8	Addition and Subtraction Facts to 20—pp. 66–73	
	dition and subtraction equations to show number ships. (CCSS: 1.OA)			
i.	Use the equal sign to demonstrate equality in number relationships. (CCSS: 1.OA.7)	Lesson 9	Addition and Subtraction Equations—pp. 74–81	
ii.	Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. (CCSS: 1.OA.8)	Lesson 10	Find Missing Numbers in Equations—pp. 82– 95	

# 2. Patterns, Functions, and Algebraic Structures

#### **Prepared Graduates:**

The prepared graduate competencies are the preschool through twelfth-grade concepts and skills that all students who complete the Colorado education system must have to ensure success in a postsecondary and workforce setting.

Expectations for this standard are integrated into the other standards at preschool through third grade.

# 3. Data Analysis, Statistics, and Probability

#### **Prepared Graduates:**

> Solve problems and make decisions that depend on understanding, explaining, and quantifying the variability in data

#### Concepts and skills students master:

1. Visual displays of information can used to answer questions

FIRST GRADE EVIDENCE OUTCOMES		SADLIER COM	MMON CORE PROGRESS MATHEMATICS, GRADE 1
Students	can:		
a. Represe	ent and interpret data. (CCSS: 1.MD)		
i.	Organize, represent, and interpret data with up to three categories. (CCSS: 1.MD.4)	Lesson 22	Use Tables—pp. 194–207
ii.	Ask and answer questions about the total number of data points how many in each category, and how many more or less are in one category than in another. (CCSS: 1.MD.4)	Lesson 22	Use Tables—pp. 194–207

**Grade Level Expectation: First Grade** 

# 4. Shape, Dimension, and Geometric Relationships

#### **Prepared Graduates:**

Make claims about relationships among numbers, shapes, symbols, and data and defend those claims by relying on the properties that are the structure of mathematics

#### Concepts and skills students master:

1. Shapes can be described by defining attributes and created by composing and decomposing

FIRST GRADE EVIDENCE OUTCOMES		SADLIER COM	IMON CORE PROGRESS MATHEMATICS, GRADE 1
Students	can:		
a. Distinguish between defining attributes1 versus non- defining attributes. (CCSS: 1.G.1)		Lesson 23	Identify Shapes—pp. 208-215
b. Build and draw shapes to possess defining attributes. (CCSS: 1.G.1)		Lesson 23	Identify Shapes—pp. 208–215
c. Compose two-dimensional shapes or three-dimensional shapes to create a composite shape, and compose new shapes from the composite shape. (CCSS: 1.G.2)		Lesson 24	Two-Dimensional Shapes—pp. 216–223
		Lesson 25	Three-Dimensional Shapes—pp. 224–231
	n circles and rectangles into two and four equal (CCSS: 1.G.3)	Lesson 26	Equal Shares—pp. 232–239
i.	Describe shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. (CCSS: 1.G.3)	Lesson 26	Equal Shares—pp. 232–239
ii.	Describe the whole as two of, or four of the equal shares. (CCSS: 1.G.3)	Lesson 26	Equal Shares—pp. 232–239

# 4. Shape, Dimension, and Geometric Relationships

#### **Prepared Graduates:**

Understand quantity through estimation, precision, order of magnitude, and comparison. The reasonableness of answers relies on the ability to judge appropriateness, compare, estimate, and analyze error

#### Concepts and skills students master:

2. Measurement is used to compare and order objects and events

FIRST GRADE EVIDENCE OUTCOMES		SADLIER CO	DMMON CORE PROGRESS MATHEMATICS, GRADE 1
Students	can:		
a. Measur (CCSS: 1	e lengths indirectly and by iterating length units. I.MD)		
i.	Order three objects by length; compare the lengths of two objects indirectly by using a third object. (CCSS: 1.MD.1)	Lesson 18	Compare and Order Lengths—pp. 162–169
ii.	Express the length of an object as a whole number of length units.6 (CCSS: 1.MD.2)	Lesson 19	Measure Length in Length Units—pp. 170–

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FIRST GRADE EVIDENCE OUTCOMES	SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1	
b. Tell and write time. (CCSS: 1.MD)		
<ul> <li>Tell and write time in hours and half-hours using analog and digital clocks. (CCSS: 1.MD.3)</li> </ul>	<b>Lesson 20 Tell Time</b> —pp. 178–185	
analog and digital clocks. (CC33. 1.WD.3)	<b>Lesson 21 Money</b> —pp. 186–193	