

Table of Contents

Introduction	i–iv
What is <i>Engaging Mathematics, Volume I: Grade 2?</i>	iii
What is found in an Engaging Mathematics TEKS-based activity?	iv
Number and operations	2–109
Composing and Decomposing Numbers, Activity 1 2(2)(A)	2
Composing and Decomposing Numbers, Activity 2 2(2)(A)	6
Composing and Decomposing Numbers, Activity 3 2(2)(A)	8
Composing and Decomposing Numbers, Activity 4 2(2)(A)	12
Representing Numbers, Activity 1 2(2)(B)	14
Representing Numbers, Activity 2 2(2)(B)	18
Representing Numbers, Activity 3 2(2)(B)	22
Generating Numbers, Activity 1 2(2)(C)	26
Generating Numbers, Activity 2 2(2)(C)	28
Comparing and Ordering Numbers, Activity 1 2(2)(D)	32
Comparing and Ordering Numbers, Activity 2 2(2)(D)	36
Comparing and Ordering Numbers, Activity 3 2(2)(D)	38
Comparing and Ordering Numbers, Activity 4 2(2)(D)	42
Locating Positions on an Open Number Line, Activity 1 2(2)(E)	44
Locating Positions on an Open Number Line, Activity 2 2(2)(E)	46
Naming Points on a Number Line, Activity 1 2(2)(F)	48
Naming Points on a Number Line, Activity 2 2(2)(F)	50
Partitioning Objects 2(3)(A), 2(3)(D)	54
Explaining Fractional-Part Relationships 2(3)(B), 2(3)(A)	58
Counting Parts Beyond a Whole 2(3)(C)	60
Recalling Addition and Subtraction Facts, Activity 1 2(4)(A)	64
Recalling Addition and Subtraction Facts, Activity 2 2(4)(A)	66
Adding 2(4)(B)	68
Adding and Subtracting 2(4)(B)	70
Solving Addition and Subtraction Problems, Activity 1 2(4)(C)	74
Solving Addition and Subtraction Problems, Activity 2 2(4)(C)	78
Solving Addition and Subtraction Problems, Activity 3 2(4)(C)	80
Generating and Solving Addition and Subtraction Problems 2(4)(D).....	82
Determining the Value of a Collection of Coins, Activity 1 2(5)(A), 2(5)(B)	84
Determining the Value of a Collection of Coins, Activity 2 2(5)(A), 2(5)(B)	88
Determining the Value of a Collection of Coins, Activity 3 2(5)(A)	92
Using the Cent Symbol, Dollar Sign, and Decimal Point 2(5)(B), 2(5)(A)	96
Joining Equivalent Sets, Activity 1 2(6)(A)	98
Joining Equivalent Sets, Activity 2 2(6)(A)	100
Joining Equivalent Sets, Activity 3 2(6)(A)	102
Separating Into Equivalent Sets, Activity 1 2(6)(B)	104
Separating Into Equivalent Sets, Activity 2 2(6)(B)	106
Separating Into Equivalent Sets, Activity 3 2(6)(B)	108
Algebraic reasoning	110–123
Determining More or Less 2(7)(B)	110
Representing and Solving Addition and Subtraction Problems, Activity 1 2(7)(C) ..	114
Representing and Solving Addition and Subtraction Problems, Activity 2 2(7)(C) ..	118
Representing and Solving Addition and Subtraction Problems, Activity 3 2(7)(C) ..	122

Geometry and measurement	124–204
Creating Two-Dimensional Shapes 2(8)(A)	124
Classifying and Sorting Three-Dimensional Solids, Activity 1 2(8)(B)	126
Classifying and Sorting Three-Dimensional Solids, Activity 2 2(8)(B)	130
Classifying and Sorting Three-Dimensional Solids, Activity 3 2(8)(B)	134
Classifying and Sorting Polygons, Activity 1 2(8)(C)	136
Classifying and Sorting Polygons, Activity 2 2(8)(C)	140
Classifying and Sorting Polygons, Activity 3 2(8)(C)	144
Composing Shapes and Solids, Activity 1 2(8)(D)	148
Composing Shapes and Solids, Activity 2 2(8)(D)	152
Decomposing Two-Dimensional Shapes, Activity 1 2(8)(E)	156
Decomposing Two-Dimensional Shapes, Activity 2 2(8)(E)	158
Measuring Length Using Models, Activity 1 2(9)(A)	160
Measuring Length Using Models, Activity 2 2(9)(A)	162
Representing Distances on a Number Line 2(9)(C)	166
Measuring Length Using Rulers, Activity 1 2(9)(D)	168
Measuring Length Using Rulers, Activity 2 2(9)(D)	172
Describing Inverse Relationship between Sizes and Numbers of Units 2(9)(B).....	176
Solving Problems Involving Length 2(9)(E)	180
Determining Area, Activity 1 2(9)(F)	182
Determining Area, Activity 2 2(9)(F)	186
Reading and Writing Time, Activity 1 2(9)(G)	188
Reading and Writing Time, Activity 2 2(9)(G)	192
Reading and Writing Time, Activity 3 2(9)(G)	196
Reading and Writing Time, Activity 4 2(9)(G)	198
Reading and Writing Time, Activity 5 2(9)(G)	202
Data analysis.....	206–239
Creating a Graph to Organize Data, Activity 1 2(10)(B), 2(10)(A)	206
Creating a Graph to Organize Data, Activity 2 2(10)(B), 2(10)(A)	210
Creating a Graph to Organize Data, Activity 3 2(10)(B), 2(10)(A)	214
Creating a Graph to Organize Data, Activity 4 2(10)(B)	220
Writing and Solving Problems from Graphs, Activity 1 2(10)(C)	226
Writing and Solving Problems from Graphs, Activity 2 2(10)(C)	230
Using a Graph to Draw Conclusions, Activity 1 2(10)(D)	234
Using a Graph to Draw Conclusions, Activity 2 2(10)(D)	236

What is *Engaging Mathematics, Volume I: Grade 2*?

1 An instructional resource featuring 75 Texas Essential Knowledge and Skills (TEKS)-based, classroom-ready mathematics activities that each take approximately 10 to 15 minutes to complete. We took the best activities of the original series, refreshing and revising them, and then added new activities where needed to create a complement for *Engaging Mathematics, Volume II*.

2 A TEKS-based resource that addresses the majority of the grade 2 mathematics TEKS. *Engaging Mathematics, Volume I* complements *Engaging Mathematics, Volume II*. Both volumes provide—

- Rigorous problem-solving tasks;
- Manipulative-based tasks;
- Vocabulary development tasks; and
- Sorting and classifying tasks.

3 A resource that supports high-quality, research-based practices by providing activities that can be used for various purposes, including—

- Engaging warm-ups and opening tasks that draw students into relevant and challenging mathematics;
- Instructional support for all students to help learners articulate, refine, and retain important mathematical concepts, processes, and skills;
- Short-cycle, formative assessments that provide immediate and ongoing feedback to guide instruction for the teacher and learning for the student; and
- Supplemental tasks to support intervention strategies.

4 A resource that incorporates the mathematical process standards by promoting—

- Reasoning, generalizing, and problem-solving in mathematical and real-world contexts;
- Modeling, using tools, and connecting representations;
- Analysis; and
- Communication.

