## **Table of Contents**

Introduction	
What is Engaging Mathematics, Volume I: Grade 1?	iii
What is found in an Engaging Mathematics TEKS-based activity?	iv
Number and operations	
Subitizing, Activity 1 1(2)(A)	2-6
Subitizing, Activity 2 1(2)(A)	8-9
Subitizing, Activity 3 1(2)(A)	
Subitizing, Activity 4 1(2)(A)	14-15
Composing and Decomposing Numbers, Activity 1 1(2)(B)	
Composing and Decomposing Numbers, Activity 2 1(2)(B)	
Composing and Decomposing Numbers, Activity 3 1(2)(B)	
Composing and Decomposing Numbers, Activity 4 1(2)(B)	
Composing and Decomposing Numbers, Activity 5 1(2)(B)	
Representing Numbers, Activity 1 1(2)(C), 1(3)(A)	
Representing Numbers, Activity 2 1(2)(C)	
Representing Numbers, Activity 3 1(2)(C)	38-40
Generating Numbers, Activity 1 1(2)(D)	
Generating Numbers, Activity 2 1(2)(D)	
Comparing Numbers, Activity 1 1(2)(E)	
Comparing Numbers, Activity 2 1(2)(E), 1(2)(G)	
Comparing Numbers, Activity 3 1(2)(G)	
Ordering Numbers, Activity 1 1(2)(F)	
Ordering Numbers, Activity 2 1(2)(F)	
Ordering Numbers, Activity 3 1(2)(F)	
Ordering Numbers, Activity 4 1(2)(F)	64-65
Adding a Multiple of 10 and a One-Digit Number 1(3)(A)	
Solving Addition and Subtraction Word Problems, Activity 1 1(3)(B)	68-71
Solving Addition and Subtraction Word Problems, Activity 2 1(3)(B), 1(3)(E), 1(3)(F), 1(5)(F), 1(5)(F), 1(5)(F), 1(5)(F)	
Solving Addition and Subtraction Word Problems, Activity 3 1(3)(B), 1(3)(E	1) /4-/6
Solving Addition and Subtraction Word Problems, Activity 4 1(3)(B), 1(3)(E	
Composing Ten, Activity 1 1(3)(C)	96-97
Composing Ten, Activity 2 1(3)(C)	00-07
Applying Fact Strategies, Activity 1 1(3)(D)	90-03
Applying Fact Strategies, Activity 1 1(3)(D)	
Applying Fact Strategies, Activity 3 1(3)(D)	98-99
Generating Addition and Subtraction Word Problems, Activity 1 1(3)(F)	100-105
Generating Addition and Subtraction Word Problems, Activity 2 1(3)(F)	
Identifying Coins 1(4)(A), 1(4)(B)	
Counting Collections of Coins, Activity 1 1(4)(C), 1(4)(B)	
Counting Collections of Coins, Activity 2 $1(4)(C)$ , $1(4)(B)$	
Counting Collections of Coins, Activity 3 $1(4)(C)$ , $1(4)(B)$	
Algebraic reasoning	
Reciting Numbers, Activity 1 1(5)(A)	120
Reciting Numbers, Activity 2 1(5)(A)	122
Counting by Twos, Fives, or Tens 1(5)(B)	124-125
Determining 10 More or 10 Less, Activity 1 1(5)(C)	126-127
Determining 10 More or 10 Less, Activity 2 1(5)(C)	128-129
Representing Addition and Subtraction Word Problems, Activity 1 1(5)(D).	130-132

Representing Addition and Subtraction Word Problems, Activity 2 1(5)(D)	134-135
Representing Addition and Subtraction Word Problems, Activity 3 1(5)(D)	136-141
Representing Addition and Subtraction Word Problems, Activity 4 1(5)(D)	142-146
Understanding the Equal Sign, Activity 1 1(5)(E)	148-149
Understanding the Equal Sign, Activity 2 1(5)(E)	150-152
Understanding the Equal Sign, Activity 3 1(5)(E)	154-155
Understanding the Equal Sign, Activity 4 1(5)(E)	156-157
Determining the Unknown, Activity 1 1(5)(F), 1(5)(E)	158-159
Determining the Unknown, Activity 2 1(5)(F), 1(5)(E)	160-162
Determining the Unknown, Activity 3 1(5)(F), 1(5)(E)	164-170
Applying Properties of Operations, Activity 1 1(5)(G), 1(3)(E)	172-173
Applying Properties of Operations, Activity 2 1(5)(G), 1(3)(E)	174-175
Applying Properties of Operations, Activity 3 1(5)(G)	176-177
Geometry and measurement	
Classifying and Sorting Shapes, Activity 1 1(6)(A)	178-179
Classifying and Sorting Shapes, Activity 2 1(6)(A)	180-181
Classifying and Sorting Shapes, Activity 2 1(0)(A)	
Defining Attributes of Two-Dimensional and	102-100
Three-Dimensional Figures 1(6)(B)	100 102
Creating Two-Dimensional Figures, Activity 1 1(6)(C), 1(6)(D)	
Creating Two-Dimensional Figures, Activity 2 1(6)(C), 1(6)(D)	
Creating Two-Dimensional Figures, Activity 3 1(6)(C), 1(6)(D)	
Identifying Two-Dimensional Shapes, Activity 1 1(6)(D), 1(6)(B)	
Identifying Two-Dimensional Shapes, Activity 2 1(6)(D), 1(6)(B)	
Identifying Two-Dimensional Shapes, Activity 3 1(6)(D)	
Identifying Three-Dimensional Solids, Activity 1 1(6)(E)	
Identifying Three-Dimensional Solids, Activity 2 1(6)(E)	
Identifying Three-Dimensional Solids, Activity 3 1(6)(E), 1(6)(B)	
Composing Two-Dimensional Shapes, Activity 1 1(6)(F)	
Composing Two-Dimensional Shapes, Activity 2 1(6)(F)	
Partitioning Two-Dimensional Figures, Activity 1 1(6)(G)	
Partitioning Two-Dimensional Figures, Activity 2 1(6)(G)	
Partitioning Two-Dimensional Figures, Activity 3 1(6)(G)	
Identifying Examples of Halves and Fourths 1(6)(H)	
Using Measuring Tools to Measure Length 1(7)(A)	
Illustrating Length 1(7)(B)	246-247
Measuring Length, Activity 1 1(7)(D), 1(7)(B)	248-251
Measuring Length, Activity 2 1(7)(D), 1(7)(B)	252-253
Measuring Length, Activity 3 1(7)(D), 1(7)(B)	
Measuring Length with Different Units, Activity 1 1(7)(C)	
Measuring Length with Different Units, Activity 2 1(7)(C)	
Telling Time, Activity 1 1(7)(E)	
Telling Time, Activity 2 1(7)(E)	
Telling Time, Activity 3 1(7)(E)	268-269
Data analysis	.270-293
Representing Data, Activity 1 1(8)(B)	270-273
Representing Data, Activity 2 1(8)(A), 1(8)(B)	274-279
Representing Data, Activity 3 1(8)(A), 1(8)(B)	280-284
Using a Graph to Draw Conclusions, Activity 1 1(8)(C)	286-287
Using a Graph to Draw Conclusions, Activity 2 1(8)(C)	288-289
Using Data to Generate and Answer Questions 1(8)(C)	290-293

## What is Engaging Mathematics, Volume I: Grade 1?



An instructional resource featuring over 90 Texas Essential Knowledge and Skills (TEKS)-based, classroom-ready mathematics activities that each take approximately 10 to 15 minutes to complete.



A TEKS-based resource that addresses all of the grade 1 mathematics TEKS and provides—

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



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.



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.

