

**PROBLEM SOLVING**  
FOR THE **21<sup>ST</sup> CENTURY**

BUILT FOR THE  
**TEKS**

# STEMscopes Alignments

First Grade

1. Login to Exemplars Library: [library.exemplars.com](https://library.exemplars.com) with your school e-mail and password

2. Select the **Grade 1 Scope** you are working on:

- [Add and Subtract within 10](#)
- [Add and Subtract within 20](#)
- [Addition and Subtraction Strategies](#)
- [Addition and Subtraction Problem Solving](#)
- [Data Analysis](#)
- [Two-Dimensional Shapes](#)
- [Three-Dimensional Solids](#)
- [Fractions](#)
- [Time](#)
- [Length](#)
- [Compose and Decompose Numbers to 120](#)
- [Compare and Order Numbers to 120](#)
- [Money](#)
- [Personal Financial Literacy](#)

3. Once you are in the correct Scope, click on the task name, which is directly linked to the Exemplars Library where you can download a printer-friendly PDF and lesson planning sheet for the corresponding task.

**\*\* Note:** You must be logged into the Exemplars Library to access the tasks in this document.

## STEMscopes: Grade 1

Scope: Add and Subtract within 10

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Join and Separate - Result Unknown	1.3B 1.3C 1.3E 1.5D	<a href="#">Dogs in Pens</a> (formative) <a href="#">Dimes in Two Bowls</a> (summative)
Explore 2: Compare - Difference Unknown		
Explore 3: Part-Part-Whole - Whole Unknown		
Explore 4: Compose Ten with Two Addends		

## STEMscopes: Grade 1

Scope: Add and Subtract within 20

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Join and Separate - Result Unknown	1.3B 1.3E 1.5D	<a href="#">Autumn Leaves in the Park</a> (formative) <a href="#">Sharing M&amp;M's</a> (summative)
Explore 2: Join and Separate - Change Unknown		
Explore 3: Compare - All Types		
Explore 4: Part-Part-Whole - Whole or Part Unknown		
Explore 5: Join and Separate - Start Unknown		

## STEMscopes: Grade 1

Scope: Addition and Subtraction Strategies

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Basic Fact Strategies - Use 10 for Addition	1.3D 1.5E 1.5F 1.5G	<a href="#">Birds in Trees</a> (formative) <a href="#">Reading a Book</a> (summative)
Explore 2: Basic Fact Strategies - Use 10 for Subtraction		
Explore 3: Properties of Operations		
Explore 4: The Equal Sign		
Explore 5: Determine the Unknown Whole Number		

## STEMscopes: Grade 1

Scope: Addition and Subtraction Problem Solving

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Represent and Solve All Problem Types	1.3F	<a href="#">Inches of Pencils</a> (formative) <a href="#">Betty's Balloons</a> (summative)
Explore 2: Generate Problems		

## STEMscopes: Grade 1

Scope: Data Analysis

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Sort and Organize	1.8A 1.8B 1.8C	<a href="#">The Zoo</a> (formative) <a href="#">David's Dog</a> (summative)
Explore 2: Collect Data and Create Picture Graphs		
Explore 3: Collect Data and Create Bar-Type Graphs		

## STEMscopes: Grade 1

Scope: Two-Dimensional Shapes

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Sort Shapes		
Explore 2: Identify and Classify Shapes	1.6A	
Explore 3: Square and Rectangle Relationships	1.6B	
	1.6C	<a href="#">Straight Sides</a> (formative)
Explore 4: Create 2-D Shapes	1.6D	<a href="#">Drawing Shapes</a> (summative)
	1.6F	
Explore 5: Compose 2-D Shapes		



## STEMscopes: Grade 1

Scope: Three-Dimensional Solids

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Sort Solids	1.6B 1.6E	
Explore 2: Identify Solids		
Explore 3: Relationships between Triangular Prisms and Rectangular Prisms		
Explore 4: Relationships between Cubes and Rectangular Prisms		

## STEMscopes: Grade 1

Scope: Fractions

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Partition Shapes	1.6G	<a href="#">Sharing a Snack</a> (formative)
Explore 2: Examples of Halves and Fourths	1.6H	<a href="#">Pizza with Four Friends</a> (summative)

## STEMscopes: Grade 1

Scope: Time

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Hour-Hand Clocks	1.7E	
Explore 2: Analog Clocks (Hour and Minute Hands)		
Explore 3: Digital Clocks and Analog Clocks		

## STEMscopes: Grade 1

Scope: Length

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Length Concept	1.7A 1.7B 1.7C 1.7D	
Explore 2: Measure Objects		
Explore 3: Measure the Same Thing with Different Units		

## STEMscopes: Grade 1

Scope: Compose and Decompose Numbers to 120

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Count and Organize Collections Up to 120		
Explore 2: Represent Numbers in Different Ways	1.2B 1.2C	
Explore 3: Relationships of 10 More and 10 Less	1.3A 1.5A	<a href="#">Reading Contest</a> (formative) <a href="#">One Hundred Buttons</a> (summative)
Explore 4: Compose and Decompose in More Than One Way	1.5B 1.5C	
Explore 5: Addition Using Place Value		

## STEMscopes: Grade 1

Scope: Compare and Order Numbers to 120

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Generate Numbers Greater Than and Less Than	1.2A 1.2D 1.2E 1.2F 1.2G	<a href="#">A Disagreement</a> (formative)
Explore 2: Compare Numbers with Place Value		
Explore 3: Comparison Symbols		
Explore 4: Order Numbers		

## STEMscopes: Grade 1

Scope: Money

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Sort and Identify Coins	1.4A 1.4B 1.4C	<a href="#">Twelve Cents</a> (formative) <a href="#">Juice Machine</a> (summative)
Explore 2: Values of Coins		
Explore 3: Relationships Among Coins		
Explore 4: Count a Collection of Coins		

**STEMscopes: Grade 1**  
Scope: Personal Financial Literacy

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Income	1.9A 1.9B 1.9C 1.9D	
Explore 2: Make Choices Between Wants and Needs		
Explore 3: Spending, Saving, and Charitable Giving		