

PROBLEM SOLVING
FOR THE **21ST CENTURY**

BUILT FOR THE
TEKS

STEMscopes Alignments

Third Grade

1. Login to Exemplars Library: library.exemplars.com with your school e-mail and password

2. Select the **Grade 3 Scope** you are working on:

- [Addition and Subtraction Strategies](#)
- [Addition and Subtraction Problem Solving](#)
- [Multiplication Models](#)
- [Multiplication Strategies and Algorithms](#)
- [Division Models](#)
- [Multiplication and Division Problem Solving](#)
- [Represent Numerical Relationships](#)
- [Place Value Relationships](#)
- [Compare and Order Numbers](#)
- [Represent and Interpret Fractions](#)
- [Compose and Decompose Fractions](#)
- [Equivalent Fractions](#)
- [Compare Fractions](#)
- [Area](#)
- [Perimeter](#)
- [Two- and Three-Dimensional Figures](#)
- [Time](#)
- [Weight and Capacity](#)
- [Represent and Interpret Data](#)
- [Count Money](#)
- [Build a Budget](#)

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 3

Scope: Addition and Subtraction Strategies

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Estimation and Rounding	3.2C 3.4B 3.4A	Selling Bananas (formative) Home Towns (summative)
Explore 2: Compatible Numbers		
Explore 3: Addition		
Explore 4: Subtraction		

STEMscopes: Grade 3

Scope: Addition and Subtraction Problem Solving

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Represent Problems with Diagrams	3.4B 3.5A 3.4A	Students at Elmwood School (formative) Extra Snack Bars (summative)
Explore 2: Represent Problems with Number Lines		
Explore 3: Represent and Solve Problems Multiple Ways		

STEMscopes: Grade 3

Scope: Multiplication Models

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Equal Groups and Repeated Addition	3.4D 3.4E 3.5C 3.4F 3.4K	Pom-poms (formative) Circles and Stars (summative)
Explore 2: Arrays and Area Models		
Explore 3: Number Lines and Skip Counting		
Explore 4: Times as Many		

STEMscopes: Grade 3

Scope: Multiplication Strategies and Algorithms

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Commutative and Associative Properties	3.4G 3.4K	Shopping for Beads (formative) Mason's Dog (formative)
Explore 2: Arrays		
Explore 3: Area Models and the Distributive Property		
Explore 4: Algorithms		

STEMscopes: Grade 3

Scope: Division Models

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Equal Groups and Shares		
Explore 2: Diagrams and Repeated Subtraction	3.4H	
	3.4I	
Explore 3: Relate Multiplication and Division Equations	3.4J	Pencil Boxes (formative)
	3.4F	Baskets of Tomatoes (summative)
Explore 4: Odd or Even	3.4K	

STEMscopes: Grade 3

Scope: Multiplication and Division Problem Solving

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Model and Solve One-Step Problems	3.4K 3.5B 3.5D	Rides a Fun Park (formative) Fishing with Friends (summative)
Explore 2: Model and Solve Two-Step Problems		
Explore 3: Model and Solve One- and Two-Step Problems		

STEMscopes: Grade 3

Scope: Represent Numerical Relationships

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Real-World Relationships	3.5E	Feeding Frogs and Lizards (formative) A Pail of Pennies (summative)

STEMscopes: Grade 3

Scope: Place Value Relationships

Explore	TEKS Standard	Exemplars Tasks
Explore 1: The Base-Ten System	3.2A 3.2B	
Explore 2: Describe Relationships		
Explore 3: Compose and Decompose Numbers		

STEMscopes: Grade 3

Scope: Compare and Order Numbers

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Compare Numbers	3.2D	
Explore 2: Order Numbers		

STEMscopes: Grade 3

Scope: Represent and Interpret Fractions

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Parts of a Whole	3.3A 3.3B 3.3E	A Cookie Cake for Sally (formative) Waffles (summative)
Explore 2: Diagrams and Number Lines		
Explore 3: Parts of a Set		
Explore 4: Partition Among Recipients		

STEMscopes: Grade 3

Scope: Compose and Decompose Fractions

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Unit Fractions	3.3C 3.3D	Lemon Pie (formative)
Explore 2: Combine Unit Fractions		Pattern Block Cookies (summative)

STEMscopes: Grade 3

Scope: Equivalent Fractions

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Model Equivalence with Objects	3.3F 3.3G 3.7A	Names for the Same (formative) Ben's Apple Pie (summative)
Explore 2: Model Equivalence with Number Lines		
Explore 3: Measure with Fractional Parts		

STEMscopes: Grade 3

Scope: Compare Fractions

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Compare Fractions with Equal Denominators	3.3H	Pages in Books (formative)
Explore 2: Compare Fractions with Equal Numerators		Who Eats the Most Pie? (formative)

STEMscopes: Grade 3

Scope: Area

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Area of Rectangles	3.6C 3.6D 3.6E	A Box Top (formative) A Patchwork Design (formative)
Explore 2: Area Problem Solving		
Explore 3: Decompose Congruent Figures		
Explore 4: Compose and Decompose Composite Figures		

STEMscopes: Grade 3

Scope: Perimeter

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Determine Perimeter	3.7B	A Shed for Mrs. Harvey (formative)
Explore 2: Find the Missing Length		A Fence for Star (summative)

STEMscopes: Grade 3

Scope: Two- and Three-Dimensional Figures

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Recognize Quadrilaterals	3.6A 3.6B	Quadrilaterals (formative)
Explore 2: Classify Three-Dimensional Solids		A Class Walk to the Park (summative)

STEMscopes: Grade 3

Scope: Time

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Start and End Times on a Clock	3.7C	Mindy's Bedtime (formative) Chore Time (summative)
Explore 2: Start and End Times on a Number Line		

STEMscopes: Grade 3

Scope: Weight and Capacity

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Weight	3.7D 3.7E	How Many Water Bottles? (formative) A New Turtle (formative)
Explore 2: Capacity		
Explore 3: Weight or Capacity?		

STEMscopes: Grade 3
Scope: Represent and Interpret Data

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Frequency Tables and Dot Plots	3.8A 3.8B	Soccer Balls on Sale (formative)
Explore 2: Pictographs and Bar Graphs		A Read a Book Contest (summative)

STEMscopes: Grade 3

Scope: Count Money

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Skip Count Coins	3.4C	
Explore 2: Find the Total		

STEMscopes: Grade 3

Scope: Build a Budget

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Income and Expenses	3.9A	
Explore 2: Financial Planning	3.9B	
	3.9C	
	3.9D	
	3.9E	
	3.9F	