

PROBLEM SOLVING
FOR THE **21ST CENTURY**

BUILT FOR THE
TEKS

STEMscopes Alignments
Fifth Grade

1. Login to Exemplars Library: library.exemplars.com with your school e-mail and password
2. Select the **Grade 5 Scope** you are working on:

- [Multiplication and Division Algorithms](#)
- [Problem Solve with the Four Operations](#)
- [Represent and Compare Decimals](#)
- [Add and Subtract Decimals](#)
- [Multiply Decimals](#)
- [Divide Decimals](#)
- [Add and Subtract Fractions](#)
- [Multiply Fractions](#)
- [Divide Fractions](#)
- [Numerical Expressions](#)
- [Classify Two-Dimensional Figures](#)
- [Perimeter, Area, and Volume](#)
- [Unit Conversions](#)
- [Graph in the First Quadrant](#)
- [Represent and Interpret Data](#)
- [Income, Taxes, and Payment Methods](#)
- [Balance 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 5

Scope: Multiplication and Division Algorithms

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Multiplication Algorithm	5.3B	Perfect Attendance (formative)
Explore 2: Division Algorithm	5.3C	Buttons for a Craft Project (formative)

STEMscopes: Grade 5

Scope: Problem Solve with the Four Operations

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Estimate Solutions	5.3A 5.4B	An Egg Farm (formative) Popsicle Party (summative)
Explore 2: Represent and Solve Multistep Problems - Level 1		
Explore 3: Represent and Solve Multistep Problems - Level 2		

STEMscopes: Grade 5

Scope: Represent and Compare Decimals

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Place Value to the Thousandths Place	5.2A 5.2B	A Fifth Grade Competition (formative) Crab Walk Relay Race (summative)
Explore 2: Compare Decimals		
Explore 3: Order Decimals		

STEMscopes: Grade 5

Scope: Add and Subtract Decimals

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Round Decimals	5.2C 5.3A 5.3K	Bamboo and the Botanist (formative) Football Players (summative)
Explore 2: Estimate Sums and Differences of Decimals		
Explore 3: Add and Subtract Decimals		

STEMscopes: Grade 5

Scope: Multiply Decimals

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Place Value Relationships	5.3A 5.3D 5.3E	Collecting Insects (formative) Ms. Harley Rides to School (summative)
Explore 2: Estimate Products of Decimals		
Explore 3: Arrays and Area Models		
Explore 4: The Standard Algorithm		

STEMscopes: Grade 5

Scope: Divide Decimals

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Place Value Relationships	5.3A 5.3F 5.3G	Sport Jerseys (formative) Buying Plastic Plates (formative)
Explore 2: Estimate Quotients of Decimals		
Explore 3: Arrays and Area Models		
Explore 4: The Standard Algorithm		

STEMscopes: Grade 5

Scope: Add and Subtract Fractions

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Prime and Composite Numbers	5.4A 5.3A 5.3H 5.3K	Working (formative) Stuffed with Pizza (summative)
Explore 2: Model Common Denominators		
Explore 3: Fluently Add and Subtract Fractions		
Explore 4: Add and Subtract Mixed Numbers and Improper Fractions		
Explore 5: Add and Subtract Fractions and Decimals		

STEMscopes: Grade 5

Scope: Multiply Fractions

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Equal Groups	5.3A 5.3I	Slices of Pie (formative) Sharing Candy Bars (summative)
Explore 2: Fractions of a Group		
Explore 3: Area Models		

STEMscopes: Grade 5

Scope: Divide Fractions

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Divide a Whole Number by a Unit Fraction	5.3A 5.3J 5.3L	Squirrel Babies (formative) Bows for Gift Baskets (summative)
Explore 2: Divide a Unit Fraction by a Whole Number		
Explore 3: Fluently Divide Whole Numbers and Unit Fractions		

STEMscopes: Grade 5
Scope: Numerical Expressions

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Order Matters	5.4E 5.4F	
Explore 2: Grouping Symbols		

STEMscopes: Grade 5

Scope: Classify Two-Dimensional Figures

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Classify Polygons	5.5A	Charting Geometric Figures (formative) A Geometry Clock (summative)
Explore 2: Classify Quadrilaterals		
Explore 3: Classify Triangles		

STEMscopes: Grade 5

Scope: Perimeter, Area, and Volume

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Perimeter and Area	5.4G 5.4H 5.6A 5.6B	Filling an Old Swimming Pool (formative) Building Boxes (summative)
Explore 2: Perimeter and Area of Composite Figures		
Explore 3: Cubic Units		
Explore 4: Volume of Rectangular Prisms		
Explore 5: Relate Perimeter, Area, and Volume		

STEMscopes: Grade 5

Scope: Unit Conversions

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Convert Units of Length	5.7A	Hanging Model Airplanes (formative) Chocolate Chip Cookies for Relatives (formative) Filling a Fish Tank (formative)
Explore 2: Convert Units of Weight and Mass		
Explore 3: Convert Units of Capacity		

STEMscopes: Grade 5
Scope: Graph in the First Quadrant

Explore	TEKS Standard	Exemplars Tasks
Explore 1: The Coordinate Plane	5.8A 5.8B 5.8C 5.4C 5.4D	Going Out to Eat (formative) Herds of Cattle (summative)
Explore 2: Graph Ordered Pairs		
Explore 3: Generate Tables and Graphs		
Explore 4: Additive vs. Multiplicative		

STEMscopes: Grade 5

Scope: Represent and Interpret Data

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Frequency Tables and Bar Graphs	5.9A 5.9B 5.9C	Making a Scrapbook (formative) Cargo Barges (summative)
Explore 2: Dot Plots		
Explore 3: Stem-and-Leaf Plots		
Explore 4: Scatterplots		

STEMscopes: Grade 5

Scope: Income, Taxes, and Payment Methods

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Types of Taxes	5.10A 5.10B 5.10C	
Explore 2: Gross vs. Net		
Explore 3: Methods of Payment		

STEMscopes: Grade 5

Scope: Balance a Budget

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Keep Financial Records	5.10D	
	5.10E	
Explore 2: Balance a Budget	5.10F	