

PROBLEM SOLVING
FOR THE **21ST CENTURY**

BUILT FOR THE
TEKS

STEMscopes Alignments

Kindergarten

1. Login to Exemplars Library: library.exemplars.com with your school email and password
2. Select the **Kindergarten Scope** you are working on:
 - [Count Objects](#)
 - [Compare Numbers to 10](#)
 - [Compose and Decompose Numbers to 10](#)
 - [Join and Separate](#)
 - [Represent Numbers to at Least 20](#)
 - [Compare Numbers to 20](#)
 - [Two-Dimensional Shapes](#)
 - [Three-Dimensional Shapes](#)
 - [Measurement](#)
 - [Data Analysis](#)
 - [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: Kindergarten

Scope: Count Objects

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Count Objects within 10	K.2A K.2B K.2C K.5A	Bicycle Tires (formative) Balloons (formative)
Explore 2: Count Objects and Organize Counts		
Explore 3: Count Forward and Backward within 10		
Explore 4: Count Forward and Backward within 20		

STEMscopes: Kindergarten

Scope: Compare Numbers to 10

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Generate a Number That is More or Less	K.2D K.2E K.2F K.2G K.2H	Toy Trucks formative) Carrying Books (formative)
Explore 2: Compare Sets		
Explore 3: Compare Numerals		

STEMscopes: Kindergarten

Scope: Compose and Decompose Numbers to 10

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Compose and Decompose 6	K.2I	Markers and Cans (formative) Two Bowls (summative)
Explore 2: Compose and Decompose 7		
Explore 3: Compose and Decompose 8		
Explore 4: Compose and Decompose 9		
Explore 5: Compose and Decompose 10		

STEMscopes: Kindergarten

Scope: Join and Separate

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Join and Separate	K.3A K.3B K.3C	Making Pizzas (formative) Crackers on a Plate (summative)
Explore 2: Part-Part-Whole		
Explore 3: Join, Separate, and Part-Part-Whole		
Explore 4: Write Number Sentences and Explain Strategies		

STEMscopes: Kindergarten

Scope: Represent Numbers to at Least 20

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Count Objects	K.2B K.2C	Sneakers (formative) Gingerbread Men (summative)
Explore 2: Count Objects and Organize Counts		
Explore 3: Generate a Set of Objects		
Explore 4: Generate Sets of Objects: Patterns in the Teens		

STEMscopes: Kindergarten

Scope: Compare Numbers to 20

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Compare Sets (Large Differences)	K.2E K.2F K.2G K.2H	Picking Dandelions (formative) The Book Shelf (summative)
Explore 2: Generate a Number That is More or Less		
Explore 3: Compare Sets (Small Differences)		
Explore 4: Compare Written Numerals		

STEMscopes: Kindergarten

Scope: Two-Dimensional Shapes

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Sort 2-D Shapes	K.6A K.6D K.6E K.6F	Sides on Shapes (formative) Counting Corners (summative)
Explore 2: Classify and Identify 2-D Shapes		
Explore 3: Create Shapes		

STEMscopes: Kindergarten

Scope: Three-Dimensional Shapes

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Sort 3-D Solids	K.6B K.6C K.6F	
Explore 2: 2-D Parts of 2-D Solids		
Explore 3: Classify 3-D Solids		
Explore 4: Identify 3-D Solids in the Real World		

STEMscopes: Kindergarten

Scope: Measurement

Explore	TEKS Standard	Exemplars Tasks
Explore 1: What Can Be Measured? Identify Measurable Attributes	K.7A K.7B	
Explore 2: Compare Length		
Explore 3: Compare Capacity		
Explore 4: Compare Weight		

STEMscopes: Kindergarten

Scope: Data Analysis

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Sort Objects	K.8A K.8B K.8C	Sorting Buttons with Faces (formative) Sorting with Blocks (summative)
Explore 2: Create Real-Object Graphs and Draw Conclusions		
Explore 3: Create Picture Graphs		
Explore 4: Collect Data and Create Picture Graphs		
Explore 5: Draw Conclusions from Picture Graphs		

STEMscopes: Kindergarten
Scope: Money

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Sort Coins	K.4A	
Explore 2: Identify Coins		

STEMscopes: Kindergarten

Scope: Personal Financial Literacy

Explore	TEKS Standard	Exemplars Tasks
Explore 1: Wants and Needs	K.9A K.9B K.9C K.9D	
Explore 2: Income vs. Gifts		
Explore 3: Job Skills		