



INTRODUCTION TO K-2 MATH LEARNING RESOURCES

ALABAMA DEPARTMENT OF EDUCATION ALABAMA MATH, SCIENCE, AND TECHNOLOGY INITIATIVE

The AMSTI Mathematics Team has curated resources aligned with the 2019 Alabama Course of Study: Mathematics for each grade level. These resources are available for students during extended school closures, including public health emergencies. While aligned with Alabama standards, the content may not follow Alabama's naming convention. To support remote learning, the repository includes both web-based and offline resources, promoting hands-on, conceptual learning while minimizing screen time. This resource is intended to help educators and families support continued student learning, but it is not exhaustive for mastering all standards.

To effectively utilize this resource package, please use the following guidance:

1. Review each activity, task, website, and game to capture key details before assigning it to students.
2. Integrate the activities into your learning management system, a communication platform, or on a weekly calendar or choice board for learners to easily access.
3. Give students the activities in manageable segments that are age appropriate, alternating between digital and “unplugged” resources, in order to regulate screen time.
4. Let learners have fun learning mathematics. Enjoy!

Please note that while every effort has been made to ensure all hyperlinks are working at the time of publication, web-based resources are impermanent and may be deleted, moved, or archived by the information owners at any time and without notice.

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KINDERGARTEN LEARNING RESOURCES

2019 Alabama Course of Study Mathematics

Foundations of Counting	Operations and Algebraic Thinking	Operations with Number: Base Ten	Measurement & Data Analysis	Geometry
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Web-Based Resources

Counting	Addition and Subtraction	Place Value	Measurement & Data	Attributes
Count to 100 by 1s	Five Frame	What makes a teen number?	Which is longer?	Geometry Read Aloud
Count to 100 by 10s	Ten Frame Addition	Write Tens and Ones	Compare Size, Weight, & Capacity	Shapes
Dot Image Lesson	Ten Frame	Ten Ones and More	Foot Book Lesson	Everyday Objects
Compare Numbers 1-10	Number Patterns of Ten	10 and 1 More 10	Compare Towers	It's Not Just A
How to Write Numbers Video	Add to Result Unknown	Counting and Cardinality Video	Longer and Shorter	3-D Shape Book
Numbers Recognition Video	Decompose Numbers Tasks	Assessing Place Value in K-2	Measurement Sentence Frames	3-D Shapes Video
NumTanga	How Many More to Make 10?	K Number Talk Video	Which is Heavier?	Name the Shape Video



Counting on By Ones Video	Addition with Pictures	Museum of Tens	Sort and Count	Describing Shapes
Comparing Numbers	Illustrative Mathematics	10 Little Rubber Duckies Book	Goodie Bags	Shapes into Sculptures
Which set has more?	How Much How Many?	Counting and Place Value	Hat Graph	

Unplugged Resources

Counting	Addition and Subtraction	Place Value	Measurement & Data	Geometry
"One More" Concentration	https://dreme.stanford.edu/news/10-family-card-gae-support-early-math-skills	Build it Teen Numbers Use numbers cards 11- 19 and beans Students pull a number card and builds the number on the card in 1 ten and more ones	Long Creatures	Building Towers
Count 10 toys or objects in your home.Touch each one and say the number out loud.	Shopping Activities	Exploring Teen Numbers	Find two things longer than your foot. Find two things shorter than your foot.	Find and count out loud 10 household objects with the same shape.
Race To 20 or Race To 10. Counting Games For K-2	Keeping Score	Ten Frame Games	Take Flight	Go outside on a "Shape Walk". Identify Shapes as you walk.
Count how many times you can bounce a ball.			Bridge Builder Game	
			Observe the weather each day and make a pictograph or bar graph to track daily changes.	



FIRST GRADE LEARNING RESOURCES

[2019 Alabama Course of Study Mathematics](#)

Operations and Algebraic Thinking

Operations with Numbers: Base Ten

Measurement and Data Analysis

Geometry

Web-Based Resources

Addition and Subtraction	Place Value	Measurement	Shapes
Subtract from Ten	Tens and Ones	Which is Longer?	Shape Match
Show One Less	Build a Train	Scoop and Order	Identify Shapes
Fact Fluency	Two digit place value	Measuring with Sticks	Open and Closed Shapes
Make Ten	Comparing two digit numbers	Measuring with Snap Cubes	Shape Book
True or False	Sums of 90	Time	Putting Shapes Together
What Makes the Equation True	10 more/less	Matching Time	Make a Triangle
Find the Missing Number	Subtract Ten	Write the Time	Printable Hands on Activity
Word Problems	Counting	Time Barrier Game	Equal Parts
Cricketweb	Counting forward and backward	Data	
First Grade Word Problems	Base Ten Path	Which has Fewer?	
Properties of Operations	Target Number	Shape Graph	



Turn Around Trains			
Unplugged Resources			
Addition and Subtraction	Place Value	Measurement	Shapes
Greedy Pig	Counting Collections	I am the greatest!	Describe, Draw, Describe
Missing Part Cards	Fill the Stairs	Measurement Minute	
Math Games and Movement Breaks	Guess my Number	Scoop and Sort	
How Many am I Hiding?	120 Chart Tic Tac Toe		
		Money	
		Cloud Dough and Coins	
		Data	
		Human Body Measurement	

SECOND GRADE LEARNING RESOURCES

[2019 Alabama Course of Study Mathematics](#)



Operations and Algebraic Thinking	Operations with Number: Base Ten	Measurement & Data Analysis	Geometry
Web-Based Resources			
Addition and Subtraction	Place Value	Measurement & Data	Attributes
Word Problems	Interpreting Number by Place Value	Measuring with cm	Recognize Shapes
Word Problem Generator	Number Line & Base 10 Models	Measuring with inches	Counting Vertices & Faces
Fact Fluency	Skip Counting by 5, 100, & 100	Measuring Lengths & Heights	Composing and Decomposing
Odd or Even	Read, Write Numbers, Expanded Form	Measure using Different Units	Tangrams
Rectangular Arrays Online	Comparing two 3--digit Numbers	Measurement Word Problems	
Printable: Roll a Rectangular Array	Adding within 100 Fluently	Reading Analog Clocks	Partitioning
Patterns	Add three 2-digit Numbers	Matching Digital and Analog Clocks	Printable: Partition a Rectangle into Same Sized Units
Creating Patterns	Add and Subtract within 1000	Add & Subtract money to \$1	Equal Parts
Growing Patterns	10 more/less	Interpret Line Plots	Printable Hands-on Activity: Fraction Barrier Game
		Interpret Bar Graphs	
Unplugged Resources			
Addition and Subtraction	Place Value	Measurement	Attributes
Close to 20	Hands-On Activity: Numeral Writing Barrier Game	Measurement Scavenger Hunt	Shape Scavenger Hunt



	<u>Move Those Digits</u>	<u>Measurement Estimates</u>	<u>Building Shapes</u>
	<u>Hands-on Activity: Comparing 3-Digit-Numbers</u>	Time	Partitioning
	<u>Hands-on Activity: Place Value Challenge</u>		<u>Equal Shares</u>
	<u>Base Ten Pictures</u>	Money	Composing and Decomposing
Patterns		<u>Coins</u>	<u>Tangrams</u>
<u>Building Patterns</u>		<u>Race for \$1.00</u>	

