



Scope and Sequence - Complete Math for Texas Grade 2

Complete Math for Texas Grade 2 is a comprehensive Mathematics program designed to give students all of the mathematical skills required for mastery to the end of Grade 2 of the Texas Essential Knowledge and Skills state standards. Each component of the program uses hundreds of activities to build skills gradually and sequentially. Auditory instructions, help buttons and rule files ensure that students will navigate the activities easily, independently and at their own level of ability. A wide variety of rewards and reinforcements keep the students engaged and motivated to succeed while they develop academic self confidence.

Program Layout

- 1 - Numeration
- 2 - Fractions
- 3 - Addition and Subtraction
- 4 - Multiplication and Division
- 5 - Algebra and Reasoning
- 6 - Money
- 7 - Geometry
- 8 - Measurement
- 9 - Data Analysis
- 10 - Personal Finance

Marks Manager

Using the new Version 5 Marks Manager a teacher can assign program pretests to individual students, or an entire class. Based on pretest results the Marks Manager will create an individualized program to target each student's skill deficits. It's completely automated and provides a highly efficient way to tailor instruction to meet specific learning needs. It provides individualized student instruction in a way that is not otherwise possible given limited time & resources.

- Pretests automatically assess the skill and ability levels of each student
- Automatic creation of an individualized program for each student's specific needs
- Teachers also retain the ability to customize all programs to meet instructional needs
- New "Hot Spots" report quickly identifies areas of student difficulty
- New "Skills" report relates all activities to specific curriculum outcomes
- Stores student marks and progress in one central location for all programs
- Creates and prints reports quickly and easily for sharing with parents and staff

1 - Numeration

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Find the Place Value Building Blocks Type the Number Building Numbers	Look at the number given and break it down by place value into 10's and 1's.	Represent two digit numbers in terms of place value - tens and ones.
Number Match Type the Numeral Copy the Number Word Type the Number Word	Type the number word for each numeral.	Read and print number words 1 to 1200.
Compare	Look at the number given and then click on the tens and ones boxes to make the number.	Represent two digit numbers in terms of place value - tens and ones for numbers 1 to 1200.
Biggest Number	Click on the biggest number.	Compare numbers and identify which number has the greatest or smallest value for numbers 1 to 1200.
Smallest Number	Click on the smallest number.	
Pick the Middle Number	Click on the middle number.	
Find the in Between Number	Pick the number that belongs in between the other two.	
From Smallest to Biggest	Type the numbers in order from smallest to largest.	Count up by 1's. Reorder out of sequence numbers into their proper numerical sequence for numbers 1 to 1200.
Choose the Correct Sign	Compare the numbers and click on the correct sign.	Understand greater than, less than, and equal signs and apply them to pairs of numbers 1 to 1200.
Hungry Alligator		
Bigger, Smaller or Same As		
Rounding to 10s	Round the number you see to the nearest 10.	Round numbers to the nearest 10 or 100.
Rounding to 100s	Round the number you see to the nearest 100.	
Where is the Number	Click on the number you hear on the number line.	Locate whole numbers to 100 on a number line.
Find the Number		
Where is the Number Now		
Number Lines by 2's Number Lines by 5's Number Lines by 10's		

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ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Number Patterns	Type the number that is missing in each sequence of numbers.	Complete basic patterns.
Count by 1's to 1000	Type the missing numbers.	Count by 1's to 1200.
Find the Picture	Color the number squares in order to make a pattern or picture.	Count by 1's to 1200.
Expanded Form I	Click on the expanded form of the number at the top.	Understand expanded form and standard form. Convert numbers 1-1200 between expanded form and standard form.
Expanded Form II	Type the following number in expanded form.	
Taking it Apart	Look at the number you see and fill in each place value blank. Press enter after each number you enter.	
Make a Number - Greater Than Make a Number - Less Than	Type a number that is greater than the number you see. Type a number that is less than the number you see.	Understand the concepts of greater than and less than. Determine numbers that are greater than or less than a given number.
From the Number Line	Type in the number that is highlighted by the star on the number line, then press enter.	Use a number line to locate numbers 1 to 1200.

2 - Fractions

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Dividing into Equal Parts	Click on the checkmark if the shape is divided into equal parts.	Understand if a shape is divided into equal sections.
Which One Has Equal Parts	Click on the shape that is divided into equal parts.	
Count the Equal Parts	Type how many equal parts each shape is divided into.	Understand how many sections a shape is divided into.
Making Fractions	Type how many equal parts are in each shape, then type how many parts are colored.	Understand how many sections a shape is divided into. Understand how many sections of a shape are highlighted.
Fraction Names	Match the fraction with the fraction word.	Understand basic fraction words - halves, thirds, quarters, eighths.
Color the Fractions	Chose a color button, then color the fraction that you hear.	Understand how many sections a shape is divided into. Understand how many sections of a shape are highlighted.
Fraction Parts	Click on the correct answers.	Understand that a shape divided equally into a larger number of segments will have smaller segments than the same size shape divided equally into fewer segments.

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3.1 - Addition Facts

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Addition Facts - #s 1 to 9	Pick the correct answer to the addition problems.	Review addition facts to 18.

3.2 - Addition

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Add 2 Digits with 1 Digit Add 3 Digits with 1 Digit Add 2 Digits with 2 Digits	Type the correct answer to the addition problems.	Addition: 2 digits to 1 digit. Addition: 3 digits to 1 digit Addition: 2 digits to 2 digits.
Regrouping 1 Regrouping 2 Mixed Practice		Addition: 2 digits to 1 digit. Addition: 3 digits to 1 digit Addition: 2 digits to 2 digits.
2 Digit Addition Problems	Various real-world 2 digit addition problems.	2 digit addition.
2 Digit Addition Problems With Regrouping	Various real-world 2 digit addition problems with regrouping	2 digit addition with regrouping.
3 Digit Addition Problems	Various real-world 3 digit addition problems.	3 digit addition.
Add Three Numbers	Type the correct answer to the addition problems.	Add three 2 digit numbers.
Add Four Numbers	Type the correct answer to the addition problems.	Add four 2 digit numbers.

3.3 - Subtraction Facts

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Subtraction Facts - #s 4 to 9	Type the correct answer to the subtraction problems.	Review subtraction facts to 18

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3.4 - Subtraction

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Learn to Subtract	Type the correct answer to the subtraction problems.	Subtraction: 1 digit from 2 digits.
Subtract 2 Digits from 2 Digits		Subtraction: 2 digit from 2 digits.
Regrouping 1 Regrouping 2 Mixed Practice		Subtraction: 1 digit from 2 digits. Subtraction: 2 digit from 2 digits.
2 Digit Subtraction Problems	Various real-world 2 digit subtraction problems.	2 digit subtraction.
2 Digit Subtraction Problems With Regrouping	Various real-world 2 digit subtraction problems with regrouping	2 digit subtraction with regrouping.
3 Digit Subtraction Problems	Various real-world 3 digit subtraction problems.	3 digit subtraction.

4 - Multiplication and Division

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Counting With an Abacus (3 activities)	Click in groups of 2, 5 and 10 beads to make the number shown.	Use objects to count in groups of 2, 5 and 10.
Learn to Multiply (3 activities)	Type the answer for each question.	Understand multiplication (x groups of x). Calculate basic multiplication problems.
Learn to Divide (3 activities)		Understand division (x groups from x). Calculate basic division problems.
Dividing Marbles (2 activities)	How could x people share y marbles equally?	Use division to solve basic problems.
Challenge	Various review problems.	Calculate basic multiplication and division problems.

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5 - Algebra and Reasoning

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Missing Numbers	Students are introduced to basic algebra through real-world problems that feature a missing number that students have to calculate through addition, subtraction, multiplication or division.	Solve real-world problems of simple algebra.
Evens and Odds I	Do you see an even number of circles or odd number of circles?	Understand and apply concepts of even and odd numbers.
Evens and Odds II	Is the number you see an even number or odd number?	
10 More	Click on the number that is 10 more than the number you see at the top.	Determine a number that is 10 more or 10 less than a given number.
10 Less	Click on the number that is 10 less than the number you see at the top.	
100 More	Click on the number that is 100 more than the number you see at the top.	Determine a number that is 100 more or 100 less than a given number.
100 Less	Click on the number that is 100 less than the number you see at the top.	

6 - Money

ACTIVITY NAME	INSTRUCTIONS	REQUIRED SKILLS
Dimes Quarters Dimes & Pennies Dimes & Nickels Dimes, Nickels & Pennies Quarters & Dimes Quarters & Nickels Quarters, Dimes, Nickels & Pennies Counting Change (2 activities each) Using the Dollar Sign	Click on all the coins to count them, then click on the answer.	Understanding value of coins. Adding and subtracting change up to one dollar. Understand and use the cent and dollar symbols.

7.1 - Geometry - 2D Naming

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
What Shape is This? (2 activities)	Click on the name of the shape that you see.	Identify 2D shapes.
Pick the Shape (2 activities)	Click on the shape that you hear.	
Shape Matching	Match the shape with its name.	
Shape Hunt	Find and click on all the shapes that match the shape that you hear.	
Shape Counting	Count the number of shapes that match the shape that you hear and press enter.	

7.2 - Geometry - 3D Naming

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
What Figure is This? (2 activities)	Click on the name of the figure that you hear.	Identify 3D figures.
Pick the Figure (2 activities)	Click on the figure that matches the figure that you hear.	
Figure Matching	Click to match each figure with its name.	
Figure Hunt	Find and click on all the figures that match the shape that you hear.	
Figure Counting (2 activities)	Count the number of figures that match the figure that you hear and press enter.	

7.3 - Geometry - 2D Properties

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Bag of Shapes	Count and type the number of each shape in the bag.	Identify 2D shapes.
Count the Sides	Count and type the number of sides that the shape you see has.	Count the number of sides of 2D shapes.
How Many Sides?	Click on the number of sides for the name of each shape.	Recognize the number of sides that a printed shape name has.
Which Shape has the Most Sides?	Click on the shape that has the most sides.	Compare 2D shapes based on the number of sides.
Which Shape has the Most Sides? II	Which shape has the most sides?	
How Many Vertices? I	Click on the number of vertices that the shape you see has.	Count the number of vertices of 2D shapes.
How Many Vertices? II	Click on the number of vertices for the name of each shape.	Recognize the number of vertices that a printed shape name has.
Which Shape has the Most Vertices?	Which shape has the most vertices?	Compare 2D shapes based on their number of vertices.
Tangrams	Click on the shapes to fit them into each tangram pattern.	Build a complex large shape from a series of given shapes.

7.4 - Geometry - 3D Properties

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Bag of Figures	Count and type the number of figures for each question.	Identify 3D figures.
Riddles	Click on the figure that answers each riddle.	Recognize the properties of 3D figures.
Construction	Click on the correct set of shapes to build each 3D figure.	Recognize that 3D figures are made up of 2D shapes and shapes needed to build a given figure.
Geometry Puzzles	Various questions involving counting the number of smaller 2D and 3D geometric shapes within given 2D and 3D shapes.	Understand that 2D shapes and 3D figures can be divided into smaller shapes and figures.
Special Prisms	Read the following questions and click on the correct answers.	Recognize the properties of 3D figures and special prisms.

8.1 - Measurement - Length & Height

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Which Would You Use?	Which unit would you use to measure various real world objects?	Select an appropriate standard unit of measure to measure the length and height of various real world objects.
Match the Height	Press the spacebar when you see the correct unit to measure the length of each object.	
Order the Height	Click on the objects in order from the shortest to the tallest.	Compare and order the heights and lengths of various real world objects.
Click the Tallest	Click on the tallest object.	
Order the Length	Click on the objects in order from the longest to the shortest.	
Measure the Length	Type the correct length of each object by using the ruler.	Use a ruler to measure the length and height of various real world objects in standard units.
Measure the Height	Type the correct height of each object by using the ruler.	
Compare Unit Lengths	Measure the object you see in centimeters and in inches.	Use different units of measure to measure the same object.
How Much Longer?	Read each question and type the correct answer.	Measure two objects and compare the measurements.
Estimating Lengths	Click on the correct answer for each question.	Estimate the lengths of various common objects.
Distance of the Race	Read each question and type the correct answer.	Various real word problems involving comparing lengths.
Number Line Distance	Read each question and type the correct answer.	Identify length on a number line and compare two numbers.

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8.2 - Measurement - Area, Perimeter & Distance

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Area & Perimeter	Click on the picture that shows area or perimeter.	Understand the difference between perimeter and area.
What is the Area?	Count the area or number of squares covered by each red shape.	Calculate perimeter and area by using non-standard units.
Guess the Area		
What is the Perimeter?	Count the number of units around each shape.	
Around the Outside	Click on the total perimeter of each object.	Calculate perimeter by using standard units.
Count the Distance	Following the red line, how many units of distance are between point A and point B?	Measure distance using non-standard units.
Find the Shortest	What is the shortest distance between points A and B?	
Football Toss	For each picture, type the answer for how far the quarterback threw the football.	Measure distance using standard units in increments of 10.

8.3 - Measurement - Telling Time

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
How Many x in a x	Enter the number of time units that equals the other unit shown.	Understand the relationship between different units of measure for time and convert between them.
How Many?	How many weeks, days, months, etc are in x weeks, days, months, etc.	
Choose the Correct Time	Click on the correct time for each clock.	Read an analog clock to the nearest five minutes.
Put the Time in the Digital Watch	Type the correct time into the digital watch.	
What Time Will it Be In...	Add the given time to the clock shown.	Add an amount of time to a given amount of time to the nearest five minutes.
Word Problems	Various word problems involving adding increments of time to a given time.	
Time Charts	Fill in the chart by adding or subtracting the given time.	

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ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Calendar	Read the calendar and answer various questions about the days of that month.	Read the day of the week, date and month from a calendar.
What Day is It?	Type the full name of the day of the week, then type the date and month of the day that is checked on the calendar.	
AM or PM?	Answer each question by typing AM or PM. Press enter after each question.	Understand concepts of AM and PM.

9.1 - Data Analysis - Surveying

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Surveying Questions	Tells students what the goal of the question is (yes or no, graphing data, etc), and asks them to pick the best question from a list.	Determine good questions for generating a finite number of responses.
Good and Bad Questions	Are these good or bad survey questions for displaying the data on a bar graph?	
Rock Stars	Look at the picture of rock stars. How many are: boys / girls / wearing jackets / dancing / not wearing hats, etc.	Gather data from pictorial evidence based on one attribute.
Fire Fighters	Look at the picture of fire fighters. How many are: wearing red / wearing hats / in total / holding axes, etc.	
The Weather in June	Look at this weather calendar. How many: cloudy / sunny / rainy days were there in June? Was it sunny on more days than it rained? / Was it cloudy on more days than it was sunny? / Was it sunny on Wed June 10? / Did it rain on a Saturday in June? etc.	Collect and count data from a calendar.

9.2 - Data Analysis - Sorting

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Attributes	Look at four groups of objects and choose the two attributes that were used to sort them.	Identify two attributes that were used to sort presorted groups.
What Do They Have in Common?	Look at the group of shapes above - what do they have in common?	
Shapes	Look at these shapes. You must sort the shapes into 4 groups based on their attributes.	Use two attributes to sort objects.
Fish	Look at the fish. You must sort the fish into 4 groups based on their attributes.	
Cars	Look at the cars. You must sort the cars into 4 groups based on their attributes.	
Letters	Look at the letters. You must sort the letters into 4 groups based on their attributes.	

9.3 - Data Analysis - Graphing

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Basketball Season	Answer various questions about reading and comparing data from a given pictograph.	Read pictographs with one-to-one correspondence.
Class Savings		
Halloween	Answer various questions about reading and comparing data from a given bar graph.	Read bar graphs with one-to-one correspondence.
Birthdays		
Make a Graph!	Your teacher does a survey of the class to figure out the most popular fruit. As you see the results of the survey, fill in the blank squares of the graph by clicking on them.	Construct a bar graph based on one-to-one correspondence.
Favorite Color	Answer various questions about reading and comparing data from a given pie chart.	Read pie charts with one-to-one correspondence.
Class Tests	Answer various questions about reading and comparing data from a given line graph.	Read line graphs with one-to-one correspondence.
Getting to School	Various questions which require students to read and compare pieces of data from a bar graph that describes the ways all the students got to school that day.	Read bar graphs with one-to-one correspondence.
Predictions	Read the following questions and click on the correct answers.	Make predictions based on data displayed in graphs.

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10 - Personal Finance

ACTIVITY NAME	INSTRUCTION	REQUIRED SKILLS
Spending and Saving	Various questions about spending and saving.	Understanding of saving and spending.
Deposits and Withdrawals	Do the following sentences describe a deposit or a withdrawal? Click on the correct answer.	Distinguish between a deposit and withdrawal.
Saving Up I	The chart below shows how much you could save in total if you saved 10 cents per week. Fill in the missing numbers. Press enter after you fill in each number.	Understand and apply the compounding of small amounts of saving over time.
Saving Up II	The chart below shows how much you could save in total if you saved one dollar per week. Fill in the missing numbers. Press enter after you fill in each number.	
Producers and Consumers I	Look at the picture you see. Does it show a producer or a consumer? Click on the correct answer	Distinguish between producers and consumers.
Producers and Consumers II	Is x a producer or a consumer?	
Building a Pen	How much does it cost to build a pen? Look at the costs of all the parts below, then enter the total cost and press enter.	Calculate production cost for various items.
Building a Toy	How much does it cost to build a toy? Look at the costs of all the parts below, then enter the total cost and press enter.	
Growing a Tomato	How much does it cost to grow a tomato? Look at the costs of all the parts below, then enter the total cost and press enter.	
Is it Borrowing?	Various real-life examples of borrowing or non-borrowing. Students must identify proper answer.	Understand borrowing.
Responsible Borrowing	Read the sentence below. Is that an example of responsible borrowing?	Understand responsible borrowing.
Is it Lending?	Various real-life examples of lending or non-lending. Students must identify proper answer.	Understand lending.
Lending Benefits and Costs	Read the sentence below. Does it describe a benefit or a cost of lending?	Understand benefits and costs of lending.