

# 2 Math Unit 01: Math Is . . .

Content Area: **Mathematics**  
Course(s):  
Time Period: **Marking Period 1**  
Length: **10 days**  
Status: **Published**

## Unit Overview

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### Understanding What Math Is

The focus of this unit is threefold:

- to build students' agency as doers of mathematics. It is important that students understand that math is not just something done in school. Math is part of our daily lives and shows up in almost every activity. It is important that students see themselves as skilled doers of math, so helping them understand that doing math is not just carrying out operations or calculations. Rather, doing math is more accurately making sense of and solving problems and finding patterns and relationships among quantities and numbers.
- to build students' proficiency with the habits of mind that are integral to doing mathematics. These include the thinking that makes up the problem-solving process and that is essential for finding patterns and relationships among quantities and values.
- to build understanding of the norms of interaction that allow for a productive math learning environment where students can develop, refine, and enhance the habits of mind that are integral to doing math.

### What Students Are Learning

- Students develop a foundation for problem-solving strategies.
- Students use appropriate math terms to explain their reasoning and to respond to the reasoning of their classmates.
- Students model real-world situations that involve addition and subtraction with drawing and equations.
- Students choose appropriate tools to solve equations.
- Students use patterns in addition to solve equations.

### Number Routines

- Math Pictures
- Notice & Wonder

## Standards

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MATH.1.OA.A.2

Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

MATH.1.OA.C.6

Add and subtract within 20, demonstrating accuracy and efficiency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g.,  $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$ ); decomposing a number leading to a ten (e.g.,  $13 - 4 = 13 - 3 - 1 = 10 - 1 =$

	9); using the relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$ , one knows $12 - 8 = 4$ ); and creating equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$ ).
MATH.1.NBT.A.1	Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.
MATH.1.NBT.B.3	Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>$ , $=$ , and $<$ .
MATH.1.NBT.C.4	Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models (e.g., base ten blocks) or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.
MATH.1.NBT.C.6	Subtract multiples of 10 in the range 10–90 from multiples of 10 in the range 10–90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

## Materials

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### Core Materials:

#### Reveal Math

- 1.1 Math is Mine
- 1.2 Math Is Exploring and Thinking
- 1.3 Math Is In My World
- 1.4 Math Is Explaining and Sharing
- 1.5 Math Is Finding Patterns
- 1.6 Math Is Ours

### Supplemental Materials:

- [ST Math](#)
- [Happy Numbers](#)
- [3 Act Lessons](#)
- [Building Fact Fluency Kit](#)
- [Brainingcamp Manipulatives](#)
- [Nearpod Lessons](#)
- [Brainpop Resources](#)
- [Online Resources](#)

## Technology

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CS.K-2.8.1.2.DA.1	Collect and present data, including climate change data, in various visual formats.
CS.K-2.8.1.2.DA.3	Identify and describe patterns in data visualizations.
CS.K-2.8.1.2.DA.4	Make predictions based on data using charts or graphs.
CS.K-2.8.2.2.ED.2	Collaborate to solve a simple problem, or to illustrate how to build a product using the design process.
CS.K-2.8.2.2.ED.3	Select and use appropriate tools and materials to build a product using the design process.
CS.K-2.DA	Data & Analysis

## Assessment

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### Formative Assessment

- Unit Readiness Diagnostics
- Lesson Checks
- Exit Tickets
- Teacher Observation

### Summative Assessment

- Unit Assessment Performance Task
- Benchmark Tests
- Alternative Assessments: Performance Tasks & Projects

## Accommodations & Modifications

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### Special Education

Differentiated Instruction			
Accommodate Based on Students Individual Needs: Strategies			
Time/General	Processing	Comprehension	Recall
<ul style="list-style-type: none"><li>• Extra time for assigned tasks</li><li>• Adjust length of assignment</li><li>• Timeline with due dates for reports and projects</li><li>• Communication system between home and</li></ul>	<ul style="list-style-type: none"><li>• Extra response time</li><li>• Have students verbalize steps</li><li>• Repeat, clarify, or reword directions</li><li>• Mini-breaks between tasks</li><li>• Provide a warning</li></ul>	<ul style="list-style-type: none"><li>• Precise step-by-step directions</li><li>• Short manageable tasks</li><li>• Brief and concrete</li></ul>	<ul style="list-style-type: none"><li>• Teacher-made checklist</li><li>• Use visual graphic organizers</li><li>• Reference resources to</li></ul>

<p>school</p> <ul style="list-style-type: none"> <li>• Provide lecture notes/outline</li> </ul>	<p>for transitions</p> <ul style="list-style-type: none"> <li>• Reading partners</li> </ul>	<p>directions</p> <ul style="list-style-type: none"> <li>• Provide immediate feedback</li> <li>• Small group instruction</li> <li>• Emphasize multi-sensory learning</li> </ul>	<p>promote independence</p> <ul style="list-style-type: none"> <li>• Visual and verbal reminders</li> <li>• Graphic organizers</li> </ul>
<p><b>Assistive Technology</b></p> <ul style="list-style-type: none"> <li>• Computer/whiteboard</li> <li>• Tape recorder</li> <li>• Spell-checker</li> <li>• Audio-taped books</li> </ul>	<p><b>Tests/Quizzes/Grading</b></p> <ul style="list-style-type: none"> <li>• Extended time</li> <li>• Study guides</li> <li>• Focused/chunked tests</li> <li>• Read directions aloud</li> </ul>	<p><b>Behavior/Attention</b></p> <ul style="list-style-type: none"> <li>• Consistent daily structured routine</li> <li>• Simple and clear classroom rules</li> <li>• Frequent feedback</li> </ul>	<p><b>Organization</b></p> <ul style="list-style-type: none"> <li>• Individual daily planner</li> <li>• Display a written agenda</li> <li>• Note-taking assistance</li> <li>• Color code materials</li> </ul>

## 504

- In class/pull out support with special ed teacher Additional time during intervention time
- Preferred seating
- Questions read aloud
- Extended time for completing tasks Graphic organizers
- Vocabulary support Mnemonic devices
- Songs/videos to reinforce concepts Limit number of questions
- Scribe Manipulatives Calculators Reteach pages Leveled homework
- Lesson intervention activities
- Math Diagnosis & Intervention System Another look homework video
- Practice buddy

## ELL

- Translation device/dictionary
- In class/pull out support with ESL teacher
- Preferred seating
- Questions read aloud
- Extended time for completing tasks
- Graphic organizers
- Vocabulary support
- Mnemonic devices
- Songs/videos to reinforce concepts

- Manipulatives
- Math Diagnosis & Intervention System

### **At-risk of Failure**

- Additional time during intervention time
- Questions read aloud
- Graphic organizers
- Vocabulary support
- Mnemonic devices
- Songs/videos to reinforce concepts
- Manipulatives
- Calculators
- Reteach pages
- Leveled homework
- Lesson intervention activities
- Math Diagnosis & Intervention System
- Another look homework video
- Practice buddy

### **Gifted & Talented**

- Independent projects
- Enrichment pages
- Online games
- Leveled Homework
- Extension Activities
- Today's Challenge

## **Interdisciplinary Connections**

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### **ELA:**

RI.2.10. Read and comprehend informational texts, including history/social studies, science, and technical texts, at grade level text complexity proficiently with scaffolding as needed.

### **Science:**

K-2-ETS1-2. Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.

## **Career Readiness, Life Literacies & Key Skills**

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PFL.9.1.2. FI.1	Differentiate the various forms of money and how they are used (e.g., coins, bills, checks, debit and credit cards).
WRK.9.1.2.CAP.1	Make a list of different types of jobs and describe the skills associated with each job.
WRK.9.1.2.CAP.2	Explain why employers are willing to pay individuals to work.
TECH.9.4.2.CT	Critical Thinking and Problem-solving

## **Career Ready Practices**

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- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP12. Work productively in teams while using cultural global competence.