

# 1 Math Unit 02: Number Patterns

Content Area: **Mathematics**  
Course(s):  
Time Period: **Marking Period 1**  
Length: **9 days**  
Status: **Published**

## Unit Overview

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### Number Patterns

In this unit, students explore patterns in numbers to 120. Students will draw on their understanding of counting numbers to 100 and extend this understanding to 120. They will notice that numbers greater than 100 follow the same pattern as numbers less than 100. The ones increase by 1 from 0 to 9 then repeat from 0. The tens stay the same until the ones restart at 0. Then the tens go up by 1 to 9. After 100, number patterns continue.

Students will develop their understanding of number patterns to 120.

- Students identify patterns on a number chart and number line when counting to 120.
- Students describe patterns they hear when counting to 120.
- Students read and write numbers to 120.
- Students count the number of objects in a group and represent the number with a written numeral.

### What Students Are Learning

- Students count by ones to 120.
- Students recognize patterns on a number line.
- Students read and write numbers to 120.
- Students represent a number of objects with a written numeral to 120.

### Number Routines

- What Did You See?
- Would You Rather?
- Notice & Wonder

## Standards

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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.

## Materials

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**Core Materials:**

## Reveal Math

### 2.1 Counting Patterns to 100

#### 2.2 Patterns on a Number Chart to 120

#### 2.3 Patterns on a Number Line

#### 2.4 Patterns When Reading and Writing Numbers

#### 2.5 Patterns When Representing Objects in a Group

## Supplemental Materials:

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

## Technology

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CS.K-2.8.1.2.AP.1	Model daily processes by creating and following algorithms to complete tasks.
CS.K-2.8.1.2.AP.2	Model the way programs store and manipulate data by using numbers or other symbols to represent information.
CS.K-2.8.1.2.AP.4	Break down a task into a sequence of steps.
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.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.

## 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

### Special Education

Differentiated Instruction			
Accommodate Based on Students' Individual Needs: Strategies			
<p><b>Time/General</b></p> <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 school</li> <li>• Provide lecture notes/outline</li> </ul>	<p><b>Processing</b></p> <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 for transitions</li> <li>• Reading partners</li> </ul>	<p><b>Comprehension</b></p> <ul style="list-style-type: none"> <li>• Precise step-by-step directions</li> <li>• Short manageable tasks</li> <li>• Brief and concrete directions</li> <li>• Provide immediate feedback</li> <li>• Small group instruction</li> <li>• Emphasize multi-sensory learning</li> </ul>	<p><b>Recall</b></p> <ul style="list-style-type: none"> <li>• Teacher-made checklist</li> <li>• Use visual graphic organizers</li> <li>• Reference resources to promote independence</li> <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</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>

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## 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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SCI.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.
SCI.K-2.ETS1.B	Developing Possible Solutions  Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions, such as climate change, to other people.
ELA.RI.MF.1.6	With prompting and support, use text features (e.g., diagrams, tables, animations) to describe key ideas.
ELA.W.IW.1.2.B	Develop the topic with facts or other information and examples related to the topic.
HE.K-2.2.2.2.PF	Physical Fitness

## Career Readiness, Life Literacies & Key Skills

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**Creativity and Innovation:** Brainstorming can create new, innovative ideas.

- **9.4.2.CI.1:** Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2).

**Example:** Students will share ideas of multiple strategies and draw models to illustrate their perspective to the solution path they utilize to solve word problems.

**Critical Thinking and Problem-Solving:** Critical thinkers must first identify a problem then develop a plan to address it to effectively solve the problem.

- **9.4.2.CT.2:** Identify possible approaches and resources to execute a plan (e.g., 1.2.2.CR1b, 8.2.2.ED.3).

**Example:** Students will work in small groups and collaborate to identify possible solutions paths to word problems, utilizing the strategies they have learned to solve addition and subtraction operations, such as place value charts, number lines, hundred chart, ten frames, etc., that could best illustrate the solution to the problem.

**Digital Citizenship:** Individuals should practice safe behaviors when using the Internet.

- **9.4.2.DC.3:** Explain how to be safe online and follow safe practices when using the Internet (e.g., 8.1.2.NI.3, 8.1.2.NI.4).

**Example:** Students will model appropriate use of all digital platforms and share examples of their work that exhibit proper use of various platforms.

**Interaction of Technology and Humans:** Technology has changed the way people live and work. Various tools can improve daily tasks and quality of life.

- **8.2.2.ITH.3:** Identify how technology impacts or improves life.

**Example:** Students will track their progress using Reveal Math or other math programs often utilized in class. Students will discuss the pros and cons of using the program with the teacher. Students will use analog and digital clocks.

## **Career Ready Practices**

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STEM in Action: Video Game Designer- Students use counting by 1s to count their score while playing a video game.

- 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.