

Unit 1

Content Area: **Mathematics**
Course(s): **Mathematics 1**
Time Period: **September**
Length: **25 Days**
Status: **Published**

Unit Overview

In unit 1, students will learn to:

- Students will be introduced to addition and subtraction to 10 and relating addition and subtraction.

Unit skills include:

- Determine number partners for 10
- Add and subtract up to 10 to solve word problems
- Count on and count back
- Use addition to subtract
- Solve addition and subtraction word problems to ten

Priority Standards

MATH.1.OA.A.1	Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, 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 $6 + 6 + 1 = 12 + 1 = 13$).

Learning Targets

- Add and subtract up to 10 to solve word problems
- Count on and count back
- Determine number partners for 10
- Solve addition and subtraction word problems to ten
- Use addition to subtract

Essential Questions

- How do I use strategies to add numbers?
- How do you add numbers?
- How do you subtract numbers?
- What strategies can I use to subtract?

Materials and Resources

- 100's chart
- Connecting Cubes
- Counters
- Dominoes
- iReady Learning Path component
- iReady Math Centers
- Part-Part-Whole Work Mat
- Pennies
- Ready Math book
- Ten Frames
- Whiteboards

Unit Assessments (Required)

- Diagnostic Assessments
- End of Unit Tests
- Exit Tickets
- Independent activities
- Lesson Quizzes
- My Learning Path weekly progress
- Teacher Observations

Learning Plan (Skills and Activities)

Time Frame	Lesson	Standard	Targets
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Lesson 1- 5 days	Number Partners for 10	1.OA.A.1 1.OA.C.6	<ul style="list-style-type: none"> Determine number partners for 10
Lesson 2- 5 days	Add and Subtract Within 10	1.OA.A.1 1.OA.C.6	<ul style="list-style-type: none"> Add and subtract up to 10 to solve word problems
Lesson 3- 5 days	Use Counting Strategies to Add and Subtract	1.OA.A.1 1.OA.C.6	<ul style="list-style-type: none"> Count on and count back
Lesson 4- 5 days	Use Addition to Subtract	1.OA.A.1 1.OA.C.6	<ul style="list-style-type: none"> Use addition to subtract
Lesson 5- 5 days	Solve Word Problems to 10	1.OA.A.1 1.OA.C.6	<ul style="list-style-type: none"> Solve addition and subtraction word problems to ten

Strategies for Multilingual Learners

- Access to manipulatives
- Clarify test directions, read test questions
- Consistent routine
- Continue practicing vocabulary
- Modeling
- Peer partners
- Read directions to student
- Read word problems aloud
- Small group/individual review of prerequisite and current skills
- Use of visuals

Strategies for Students in Need of Intervention

- Access to manipulatives

- Additional time for assignments
- Answers to be dictated
- Concrete examples
- Extra visual and verbal cues and prompts
- Have student restate information
- Instruction on prerequisite skills/spiral review
- Review of directions
- Small group instruction
- Support auditory presentations with visuals
- Varied reinforcement procedures
- Work in progress check

Strategies for Enrichment

- Alternate assignments/ enrichment assignments
- Enrichment projects
- Extension activities
- Higher-level cooperative learning activities
- Pairing direct instruction w/ coaching to promote self directed learning
- Provide higher-order questioning and discussion opportunities
- Tiered centers or assignments

Technology Integration

- iReady Math Online Program
- My Path
- Reflex

CS.K-12.2.a	Cultivate working relationships with individuals possessing diverse perspectives, skills, and personalities.
CS.K-12.2.b	Create team norms, expectations, and equitable workloads to increase efficiency and effectiveness.
CS.K-12.3.a	Identify complex, interdisciplinary, real-world problems that can be solved computationally.
CS.K-12.3.b	Decompose complex real-world problems into manageable sub-problems that could integrate existing solutions or procedures.
CS.K-12.3.c	Evaluate whether it is appropriate and feasible to solve a problem computationally.

Interdisciplinary Connections

Connection to Reading: Comprehend word problems in order to be able to solve them accurately.

Connection to Writing: Students may be encouraged to write their own addition or subtraction word problems.

Connection to Science: Collecting data often involves, counting, adding, comparing, and subtracting.

21st Century Skills/Career Ready Practices

- CRP2 Apply appropriate academic and technical skills.
- CRP6 Demonstrate creativity and innovation.
- CRP8 Utilize critical thinking to make sense of problems and persevere in solving them.

WRK.9.1.2.CAP.1 Make a list of different types of jobs and describe the skills associated with each job.

TECH.9.4.2.CT.3 Use a variety of types of thinking to solve problems (e.g., inductive, deductive).

TECH.9.4.2.TL.3 Enter information into a spreadsheet and sort the information.

TECH.9.4.2.IML.1 Identify a simple search term to find information in a search engine or digital resource.

TECH.9.4.2.IML.2 Represent data in a visual format to tell a story about the data (e.g., 2.MD.D.10).

TECH.9.4.2.IML.4 Compare and contrast the way information is shared in a variety of contexts (e.g., social, academic, athletic) (e.g., 2.2.2.MSC.5, RL.2.9).