

Unit 1

Content Area: **Mathematics**
Course(s): **Mathematics 2**
Time Period: **September**
Length: **30 Days**
Status: **Published**

Unit Overview

In unit 1, students will learn to:

- Count on to subtract.
- Use fact families to add and subtract.
- Make a ten to add and subtract.
- Solve a one-step word problem.
- Draw and find information from pictures and bar graphs.
- Use addition and subtraction to solve a word problem with more than one step.
- identify shapes and their attributes, put shapes together to make composite shapes, understanding breaking shapes into equal parts

Priority Standards

MA.2.MD.D.10	Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart, and compare problems using information presented in a bar graph.
MA.2.OA.A.1	Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.
MA.2.OA.B.2	Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.

Essential Questions

- How can I model a problem with pictures to help me solve the problem?
- How can I organize data into graphs to answer questions?
- How can I use what I know about relationships between addition and subtraction to help me solve problems?
- What strategies can I use to help me add and subtract?

Learning Plan (Skills and Activities)

iReady Unit	Pacing	Goals	Lessons/Activities
Unit 1 Numbers Within 20 Addition, Subtraction and Data			Vocabulary Introduction
			See Resources to Review Prerequisite Skills
	iReady Lesson 1 (6 days)		Try It Lessons
			Explore Lessons
	iReady Lesson 2 (6 days)	Use mental strategies for addition and subtraction	Develop Lessons
			Refine Lessons
	iReady Lesson 3 (6 days)	Solve one-step word problems	Math Games/ Centers
			See resources to reteach/enrich
	iReady Lesson 4 (6 days)	Draw and use bar graphs and picture graphs	See strategies for differentiation to utilize during math centers
			Individualized instruction through My Path
	iReady Lesson 5 (6 days)	Solve two-step word problems	Exit Tickets
			End of Lesson Quizzes
			Individual Class Games/Activities
			Reflex Math for fluency practice

Unit Assessments (Required)

- Diagnostic Assessments
- End of Chapter Test

- Exit Tickets
- Independent practice pages
- Models
- My Learning Path weekly progress
- Teacher Observation
- Unit Tests

Materials and Resources

- Additional Math Journal
- Base-10 blocks
- Data Math Games
- Digital Clock Template
- Geoboards
- Non-standard units of measurement
- Ready Math Program
- Student Judy Clocks
- Telling Time Math Games

Career Readiness, Life Literacies & Key Skills

- CRP1. Act as a responsible and contributing citizen and employee.
- CRP10. Plan education and career paths aligned to personal goals.
- CRP11. Use technology to enhance productivity.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- 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).

Strategies for Differentiating Instruction

- Provide a list of keywords in word problems. For example: "In all, altogether means addition"

- Small Group Instruction based on strategy
- Small group instruction for Fact Fluency
- Small group instruction for word problems
- Extended pacing of lessons
- Hands on manipulatives
- Provide grid paper
- Reduce the amount of problems
- Small Group Instruction to extend concept for Enrichment
- Use of a number line
- Use of approaching level materials/assignments
- Use of hundreds chart
- Use of visual aids for vocabulary building