

Fourth Edition



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Teacher's Toolkit CD

Teacher Information

Parent Letter

Visuals (from the Teacher's Visual Packet)

Instructional Aids

1-2-3 Write

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Math Board Suggestions

Worktext Answer Key



Lesson Features

Encourage a Christian worldview by discussing real-life problems to show the students that math is a powerful tool for exercising dominion over the earth as commanded in Genesis 1:28.

Objectives point out skills to teach in the lesson.

The Materials section

lists items to collect or

prepare ahead of time.

Practice and Review

provides activities for practicing previously

taught skills, such as

counting objects and

number recognition.

Review of concepts can

occur any time during

the day.



Lesson Worktext pages 19-20

- Objectives

 Understand the relationship between the number 2 and quantities
- · Reason that 2 is 1 more than I
- Construct stories and pictures for the number 2

- Construct stories and pictures for the number 2
 Feacher Materials
 Chart 4: Two
 Stick puppet: Farmer firewn
 Dot Pattern Cards 1: 2
 Manipulatives 4 caterpillars, 5 ladybugs, 2 circles
 A counting frame (or 12 pig or sheep manipulatives)

 A nair of world store

A pair of work gloves Student Materials

- Manipulatives for each pair of students: 2 caterpillars, 1 ladybag
 1-2-3 Write, number 2 (Teacher's Toolkit CD)
- Form Number Book, number 2 (Teacher's Toolkit CD)
 Form Number Book goats (Teacher's Toolkit CD)

Practice and Review

Count up to 12 objects

- Display the counting frame (or manipulatives)
- Move 6 beads, one at a time, to the right side of the counting frame as you lead the students in counting the beads.
 Move all the beads back to the left. Choose a volunteer to move the beads and lead the class in counting 8 beads. Bepeat the procedure, this time counting 12 beads.

Determine the set with more or fewer objects

- Display 3 caterpillars in a column on the left and 5 lady-bugs in a column on the right.
- · Choose a student to draw lines to match the animals. Is the number of caterpillars and ladybugs the same! on Any there more caterpillars or more ladybugs? There are more ladybugs
- Remove the figures and place 4 caterpillars on the left and 3 ladybugs on the right.
- Is the number of caterpillars and ladybugs the same? no Are there fewer caterpillars or fewer ladybugs? There are
- Move each caterpillar next to a ladybur. on many fewer ladybugs are there than caterpillars? on do you know? There is I caterpillar that does not

Teach for Understanding

Lesson Focus

In this lesson you will learn about the number 2. You will identify and draw pictures with 2 objects and will practice writing the number 2.

Understand the relationship between the number 2 and quantities of 2

- 2 and quantities of 2

 Display the work gloves. Choose volunteers to name things Farmer Brown might wear gloves to do.

 Hold up the Farmer Brown puppet. Direct a student to count Farmer Brownshot, Ask another student to tell how many gloves Farmer Brown needs.
- Count the gloves as you hold them up one at a time. What do see call a set of gloves that fit each hand? a pair of How many ployer are in a pair? 2 sloves
- Explain that the word puir can be another name for a set of
- 2 matching objects. Name some other objects that make up a pain possibl more shoes, socks, twins, Farmer Brown's eyes, ears, arms, and feet

Who were the first pair of people? Adam and Eve God originally made 1 person, Adam. But God did no want the man to be alone. God made a woman, Eve, t Adam's wife. Then there were 2 people. By the end of 6, God had made 2 people, the man and his wife.

- Display the Two chart. Explain that this chart shows the number 2. Point out the number word two.
 Invite a student to count the goats on the chart.
- Display Dot Pattern Card 2. Count together the dots on the card. Choose a volunteer to tell which number the dot pattern represents.
 Display Dut Pattern Card 1. Choose a volunteer to tell what
- number the dot pattern represents.
 How are the dot patterns different! There is I more dot in
- Draw a rectangle for display and place I circle in the center of the rectangle
- become recompanies.

 Demonstrate that the dot pattern for 2 is made of 1 and 1 more. Point to the circle as you count, "one." Then add a second circle, positioning the 2 circles to show the dot pattern for 2. Count together the dots in the set.

Reason that 2 is 1 more than 1

- Group the students in pairs. Distribute 2 caterpillars and 1 ladybug so each pair.
 - sillars do you have? 2 caterpillars
- Invite the students to match I caterpillar to I ladybug to show sine-to-one matching. Are there more caterpillars or more ladybuge! There are more caterpillars. How do you know! There is I caterpillar that does not have a matching ladybug.
- Is 2 more or less than If 2 is noore than I.

 How many more liadyings would I need to give you so that
 you would have a set of 2 ladyings? I more ladying
- Guide the students to conclude that 2 is 1 more than 1.
 Allow the pairs of students to arrange the caterpillars to
- make various dot patterns for 2.

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The Lesson Focus prepares

the students for what they

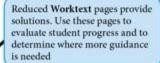
will learn in the lesson.

Chapter 2: Numbers 0-5

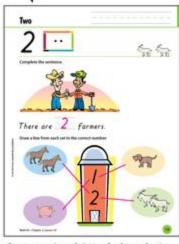
Group work promotes collaborative learning.

Teach for Understanding or Check for Understanding provides effective procedures for explaining math concepts, using manipulatives, and promoting problem solving

using critical-thinking skills.



A variety of activities allows the students to see math at work in real-life contexts.





Time to Review exercises provide systematic review of skills and concepts.

Construct stories and pictures for the number 2

 Describe the stroke and finger-trace the number 2 on the chart. Demonstrate the stroke as you write the number on the handwriting lines.



- Begin near the top; swing right and down to the left; glide right.
- Lead the students in air-tracing the number 2 several times. Encourage them to repeat the stroke description with you as you write the 2s.
- Distribute the 1-2-3 Write page. Direct the students to point to each rabbit as you count them together.
 How many rabbits are on the page? 2 rabbits
- Choose volariteers to make up a sentence about the picture. (Example: There are 2 rabbits eating vegetables from Farmer Brown's garden.)

 Instruct the students to use their pencils to trace the row of dashed 2s. Remind them of the stroke description as
- they trace.
- bey rise.

 Eastruct the students to practice writing the number 2 on the row below the 2s they fraced. Assist the students as they write. (Note: The last row of 2s may be completed as practice at home or as review in Lesson 11.)
- Direct the students to use their fingers to demonstrate 2.
 Allow students to show their neighbor 2 fingers.

- Distribute the Farm Number Book page and the goats to each student.
- ➤ Direct attention to the word to the right of the number 2 and remind the students that two is the number word for 2.

Are there more than 2 goats in the bag I gave your yes.

- Check the students' responses. Instruct them to glue the goats in the pen on the page.

 Allow time for the students to practice writing 2s below:
- the picture.
- Encourage the students to complete the page by coloring the farm scene.
 Collect the pages to assemble the books in Lesson 23.

Worktext pages 19-20

Read and guide completion of the pages.

Involve the students in interactive learning through discussion that encourages them to construct reasonable proof for their solutions.

Lesson 10

Notes contain helpful information for lesson planning and preparation.

New to This Edition

- Studies show that retention increases by 23 percent when students know what is expected of them. This book offers a Lesson Focus for every lesson. This statement is to be conveyed to your students before the lesson begins. Some lessons give a process the students will use to learn the new skill; other lessons tell the students how previous knowledge will be applied to the new concept.
- 2. To help your students become lifelong problem solvers, more focus has been placed on processing word problems. Encourage the students to become active listeners by asking them to listen for who the problem is about and what action is taking place before you read through a word problem the first time. Next, encourage them to visualize the problem by breaking it into shorter, more manageable parts: reread one sentence at a time and ask the students to show the action with manipulatives or drawings. After all sentences have been reread and the students have pictured the problem, ask them to translate the picture into a number sentence and retell the story in their own words. Finally, a summary sentence should be crafted to explain the solution.
- 3. Answers to questions are modeled with full answers using math terminology from the lesson. It may take additional questioning to draw more complete answers and explanations from your students at the beginning of the year. Set high expectations! A pattern is established in the lessons of asking the students to explain their answers or reasoning. You will notice that the reasoning is often included in answers even when the question does not specifically ask for it. It is expected that the students will give their reasoning for all answers where appropriate.
- More group work is included to allow collaboration among peers. For optimal learning for all students, each group should include students with varying strengths and abilities. Groups may vary for each instructional strand.

- Keep math in front of your students continuously. Every chapter includes math board suggestions, which are designed to be used any time of day.
- 6. Provide a loving and positive learning environment that encourages your students to participate. Remember that all your students are made in God's image (Genesis 1:26-27). Therefore, all your students should be important to you, and each student should be concerned for the success and well-being of the other students. Circulate among the students as they work, gently guiding them to correct thinking and giving individual attention as needed. Praise students who do well, and praise those who help others to do well. Many real-life connections for math are made as Farmer and Mrs. Brown work on the farm that God has provided for them. Teach your students to be diligent, and portray Christ's love, grace, and forgiveness to your students as they work, make mistakes, and fall short of your expectations.



Lesson Plan Overview

Lesson	Worktext Pages	Practice & Review Objectives	Lesson Objectives
		Chapter 1: Class	sifying & Sorting
1	1-2		Identify objects in a set that are exactly the same Identify objects in a set that are different Compose sets with objects that are exactly the same
2	3-4	• Count 1-10	Compare the colors of objects in a set Compose sets of objects that are the same color
3	5-6	Count up to 10 objects	Compare the sizes of objects in a set Compose sets of objects that are the same size
4	7-8	Count up to 10 objects	Compare the shapes of objects in a set Compose sets of objects that are the same shape Sort by 1 attribute
5	9-10	• Count 1-10	Sort by more than 1 attribute Compose a set of objects that are the same color, size, and shape
6	11-12	• Count 1-10	Identify the common characteristic of objects in a set Determine an object that could be included in a set based on a common characteristic Identify the object in a set that does not share the common characteristic Sort by more than 1 attribute
7	13-14	Count 1–10 Count up to 10 objects	Determine sets that have the same number of objects Identify the set that has more or fewer objects Make comparison statements for sets of objects
8	15-16		Identify objects that are the same color, size, or shape Identify objects that are different in color, size, or shape Compare sets of objects using one-to-one matching Determine the set that has more or fewer objects
		Chapter 2: I	Numbers 0-5
9	17-18	Count 1-12 Identify the object in a set that is different	Understand the relationship between the number 1 and quantities of 1 Construct stories and pictures for the number 1
10	19-20	Count up to 12 objects Determine the set with more or fewer objects	Understand the relationship between the number 2 and quantities of 2 Reason that 2 is 1 more than 1 Construct stories and pictures for the number 2
11	21-22	Count 1-15 Sort objects according to shape	Understand the relationship between the number 3 and quantities of 3 Reason that 3 is 1 more than 2 Construct stories and pictures for the number 3
12	23-24	Count up to 20 objects Identify numbers before and after Match the numbers 1–3 to the correct dot pattern	Understand the relationship between the number 4 and quantities of 4 Reason that 4 is 1 more than 3 Construct stories and pictures for the number 4
13	25-26	Identify dot patterns 1–4 Count up to 20 objects Identify left and right	Understand the relationship between the number 5 and quantities of 5 Reason that 5 is 1 more than 4 Construct stories and pictures for the number 5
14	27-28	Count 1-20 Sort objects according to color	Understand the relationship between the number 0 and the empty set Reason that 0 is 1 less than 1 Construct stories and pictures for 0
15	29-30	Identify dot patterns 0-5 Count up to 20 objects Write the numbers 0-5	Associate the numbers 1–5 with the ordinal numbers first-fifth Locate objects in the positions first-fifth

Lesson Plan Overview

esson	Worktext Pages	Practice & Review Objectives	Lesson Objectives
16	31-32		Understand the relationship between the numbers 0–5 and their quantities Identify and write the numbers 0–5 Identify numbers that are 1 more or 1 less Identify the ordinal positions first-fifth
17	33-34		Cumulative Review
		Chapter 3: N	lumbers 6-10
18	35-36	Count 1-20 Identify dot patterns 0-5 Identify same and different sizes	Understand the relationship between the number 6 and quantities of 6 Reason that 6 is 1 more than 5 Construct stories and pictures for the number 6
19	37-38	Count 1-20 Locate top, middle and bottom Identify dot patterns 0-6	Understand the relationship between the number 7 and quantities of 7 Reason that 7 is 1 more than 6 Construct stories and pictures for the number 7
20	39-40	Identify dot patterns 0-7 Recognize first, next, and last Count 1-20	Understand the relationship between the number 8 and quantities of 8 Reason that 8 is 1 more than 7 Construct stories and pictures for the number 8
21	41-42	Count 1-20 Play ticktacktoe with dot patterns 0-8	Understand the relationship between the number 9 and quantities of 9 Reason that 9 is 1 more than 8 Construct stories and pictures for the number 9
22	43-44	Count 1-20 Locate the positions before and after Identify dot patterns 0-9	Understand the relationship between the number 10 and quantities of 10 Reason that 10 is 1 more than 9 Construct stories and pictures for the number 10
23	45-46	Identify left and right Count 1-20 Match the numbers 0-10 to the correct dot pattern Write the numbers 6-10	Associate the numbers 1–10 with the ordinal numbers first-tenth Locate objects in the positions first-tenth
24	47-48		Understand the relationship between the numbers 6–10 and their quantitie Identify numbers that are 1 more or 1 less Identify the ordinal positions first-tenth Write the numbers 0–10
25	49-50		Cumulative Review
		Chapter 4	: Geometry
26	51-52	Count to 10 and back from 10 Identify numbers before and after	Identify and trace a circle Identify position using the terms next to, before, and after Extend a color pattern
27	53-54	Count 1-20 Count up to 10 objects	Identify and trace a rectangle Identify circles and rectangles by their attributes Identify position using the terms before, after, above, and below Extend a size pattern
28	55-56	• Count 1-30	Identify and trace a square Identify circles, rectangles, and squares by their attributes Extend a shape pattern
29	57-58	Count up to 30 objects	Identify and trace a triangle Identify circles, rectangles, squares, and triangles by their attributes Identify, copy, and extend a shape pattern
30	59-60	Identify and copy a sound pattern Identify and copy an action pattern	Compose shapes and objects Identify, copy, and extend color and shape patterns Compose a pattern using shapes
31	61-62		Identify circles, rectangles, squares, and triangles by their attributes Identify, copy, and extend sound, shape, and color patterns Identify position using the terms before and after
32	63-64		Cumulative Review

Lesson Plan Overview