# TEACHER'S GUIDE Overview 

continued


#### Abstract

$i$-Ready Classroom Mathematics lessons consist of three types of sessions: Explore, Develop, and Refine. The following is a walkthrough of the planning and support features within the Teacher's Guide for a Develop session. You will find many of the same features in the Explore and Refine sessions.


## Lesson Overview provides

information for use in planning whole class instruction, small group differentiation, and independent learning opportunities.

## LESSON <br> 5

## OVERVIEW

## Compare Numbers to 5

STUDENT LEARNING TARGET: Compare groups of objects and numbers up to 5. Recognize that each counting number is one more than the last.

## Student Learning Target uses

friendly language to set expectations for what children will be able to do by the end of the lesson.

Content Objectives identify the mathematical learning goals for the lesson, while Language Objectives indicate the language children are expected to understand and produce as they work on those goals.

Prior Knowledge identifies key skills children will build on during the lesson and presents opportunities to monitor understanding and identify children's learning needs.

## Standards for Mathematical Practice (SMP)

## Lesson Objectives

$\rightarrow$ Content Objectives

- Compare two numbers and quantities within 5 , using the words more, less, or same.
- Recognize that one more than a given number is the next number in the counting sequence.
SMP 1, 2, 3, 4, 5, and 6 are

Connect.*
This lesson provides
additional support for:
7 Look for and make use of structure.
8 Look for and express regularity in repeated reasoning.

* See page 1q to learn how every lesson includes these SMP.


## Language Objectives

- Use more, less, and same to compare the number of objects in each group.
- Tell, write, and show using drawings the number or quantity that is one more than a given number or quantity.
- Explain ideas clearly and check with the audience for understanding.


## Prior Knowledge

- Count up to 5 objects.
- Read and write numbers to 5 .
- Compare length.


## - Vocabulary

Math Vocabulary

- compare to decide if numbers, amounts, or sizes are greater than, less than, or equal to each other.
- more, more than the greater number, quantity, or amount.
- less, less than the group or number with fewer, not as much, not as many.
- same, same as an equal value, size, or amount.
- one more names the next number in the counting sequence.

Review the following key terms.

- count to find out how many things are in a group.
- one, two, three, four, five the counting numbers from 1 to 5 .
- zero a number for a group with no objects. None, not any.

Academic Vocabulary

- after following or happening next.
- both two things together.

Learning Progression sets context for the mathematics of the lesson, providing information on how the context fits within and across grade levelswhat children previously learned, what they are learning now, and what they will be learning next.

Learning Progression Previously
Earlier in Kindergarten, children learned to count quantities to 5 and represent the count with a written number. They also developed comparison thinking in the context of length and height.

| IN THIS LESSON |
| :--- |
| Children continue to build their skills |
| with counting objects. They use |
| length and matching strategies to |
| compare groups of up to 5 objects |
| and use the words more than, less |
| than, and same as to compare. They |
| compare written numbers using |
| concrete or pictorial support. |
| Children learn that as they count, |
| each number name they say refers to |
| a quantity that is one more than the |
| previous number. |

## Later

Later in Kindergarten, children will extend their comparison skills to groups and numbers to 10 . They will begin using the terms greater than, less than, and equal to when comparing.

THIS LESSON AT A GLANCE


The concept of length can be used to compare.


Matching can also be used to compare.


The counting number that comes next is one more.

This Lesson at a Glance provides a visual representation of the lesson progression.

# TEACHER'S GUIDE Overview <br> continued 

## Pacing Guide provides session-by-

 session pacing used to plan daily instruction and practice.Assessment is used to determine children's progress and inform instructional decisions. Teachers can choose from observation, pencil and paper, and digital options.

## Centers, Differentiation, and

 Practice time is built into the lesson pacing to help teachers meet children's individual needs.Materials list helps teachers prepare the manipulatives and resources children can use during the lesson activities.

Presentation Slides include key visuals and questions to support the delivery of each lesson.


## LESSON 5

## Centers, Differentiation, and Practice

CENTERS | Student-Led Practice $\cdots$ 。

Session Centers: Each Apply It activity can be continued as a student center and repeated as needed in later sessions. Slides and additional printable workmats are available.

## SESSION 2

Counter Compare
Compare groups of counters to determine if a group has more than, less than, or the same number as another group.


SESSION 3
Hide One More Identify a number of counters that is one more than a given number.


SESSION 4
Compare Numbers Compare numbers shown in written form and as quantities.


SESSION 5
Lesson Reflection Show what you learned from the lesson.


## Student-Led Centers

Session Centers extend children's work with the Apply It activities begun during the Develop and Refine sessions.

Centers Library is a set of repeatable centers that provide opportunities for children to practice and review key skills and develop fluency. Two centers from the library are recommended to accompany each lesson and can be used in any session.

Centers Library: Reinforce skills, review, and build fluency.

SKILL REVIEW
Tile Puzzles
Card 8
Reinforce counting up to
5 objects.


## FLUENCY

Show It
Card 13
Reinforce showing quantities within 5.


DIFFERENTIATION | Teacher-Led Small-Group \&
Meet the needs of each and every child through teacher-led small groups.
RETEACH and EXTEND options are provided for each Session Center.

## INDEPENDENT PRACTICE

Session Practice: in the Student Worktext
Fluency and Skills Practice: available on Teacher Toolbox ${ }^{\text {\% }}$
Interactive Practice: assignable through i-Ready Connect \&-Ready Personalized Instruction

Optional Add-On: Personalized


Instruction resources provide children with opportunities to strengthen grade-level skills by working on their personalized path.

## Additional Practice options

 include Student Worktext practice pages, Fluency and Skills Practice, digital practice, and digital games.
# TEACHER'S GUIDE Overview <br> continued 

Purpose provides a roadmap of what children will be learning and doing throughout the session.

## Start: Number Sense activities

 provide daily opportunities for children to talk about numbers and relationships, develop understanding of number, and use numbers and operations flexibly.
## Counting Routines provide

children with engaging opportunities to practice rote counting daily.

## LESSON 5

## SESSION 2 DEVELOP

Purpose

- Develop understanding of one-to-one matching to compare groups.
- Recognize that a group has more when, after matching, that group has objects left over.

How can you show it another way?

## START

## Number Sense

## Show It Another Way

Show the slides one at a time.
ASK: How can you show the number another way?

- Encourage children to use materials, fingers, or drawings.
- Have children turn and talk about how they showed the number.
- Listen and look for a variety of solutions for whole class sharing.

Facilitate Whole Class Discussion

- What number did you show? How did you show it?
- How is your partner's way the same or different from yours?

Repeat for each slide.


PASS AND COUNT Have children count forward by 1 s from 1 to 40 as they pass a bean bag around the circle. Then reverse direction and count backward from 10 to 0 .

## DIFFERENTIATION | English

Learners helps teachers scaffold
or amplify language for a specific activity so English learners can access and engage with grade-level mathematics.

## -DIFFERENTIATION | English Learners Use with Connect It

Academic Vocabulary: Match means to put one thing with exactly one other thing or to put two of the same thing together..

Levels 1-3 Listening/Speaking
Support participation in Connect It by building the meaning of match. Show some pencils and fewer erasers. SAY: Let's match the pencils and the erasers. Have children repeat. SAY: We cannot match this pencil to an eraser. The group of pencils has more. Invite partners to explain match and more in their home language using other unequal groups. ASK: Which group has more? Encourage children to respond using phrases.

Levels 2-4 Listening/Speaking
Help children participate in Connect It by beginning to model how to match a group of pencils and fewer erasers. After you start, have partners explain match and matching, first in their home language and then in English. Then provide sentences frames to support using match and more:

- Imatch the ___ and the
- I cannot match all of the
$\qquad$
- So, the group of ___ has_.

Levels 3-5 Listening/Speaking
Support participation in Connect It by first inviting children to explain ideas in their home language before explaining in English. Provide partners with some pencils and fewer erasers to compare. ASK: How does matching help you find which group has more? After partners discuss, provide a sentence frame to support their explanations:

- Matching helps me find which has more because

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# TEACHER'S GUIDE Overview cormed 

Apply It Activities are repeatable tasks that are introduced during whole class instruction and can be continued as centers.

Error Alert draws attention to
frequently made errors in procedure or calculation and provides on-the-spot remediation.

## Sentence Frames provide

 language support to children as they explain their strategies, make connections, or justify their thinking.
## LESSON 5

MATERIALS
(per pair)

Two-color counters (20)


Number and Dot Row Cards Numbers 0 to 5 (2 sets) Counter Compare Workmat (optional)

Preparation: Give each pair 20 two-color counters and a stack of Number and Dot Row Cards (2 sets mixed together). $\square$
$\square$$\checkmark$

## SESSION 2 <br> DEVELOP

## APPLY IT \| SMP 2,5, 8

## Counter Compare Activity

## How can you use objects to compare numbers?

This activity guides children to develop understanding of using one-to-one matching to compare groups.

- Tell children they will practice comparing numbers by using counters. They will show numbers with counters and decide which is more.
- Invite two volunteers to demonstrate the game.
- Place the stack of number cards facedown next to a pile of 20 counters.
- Both players take a number card but do not show it to the other player yet.
- Each player uses counters to show their number.
- Players match counters to decide which group has more and
which group has less.
- Players reveal their cards and check that the counters match the numbers.
- The player whose group shows less says the comparison aloud, for example: 1 is less than 3 . The player whose group shows more says their comparison aloud: 3 is more than 1 .
- The player whose group shows more keeps both cards. If the groups are the same, each player keeps a card.
- Place the counters back in the pile and repeat until all the cards are used.

- The player with more cards wins the game.
- After demonstrating the game, have children play in pairs.


## Facilitate Whole Class Discussion

Guide children to share their understanding of using matching to compare numbers. Have children turn and talk with a partner to share their ideas before discussing as a class.
ASK How did matching help you know which player had more counters?
LISTEN FOR children to explain that whoever had counters without a match had more.
ASK How did matching help you know when you both had the same number of counters? LISTEN FOR children to describe how neither player had any counters left over after matching their counters.

|  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| SESSION 1 | SESSION 2 | SESSION 3 | SESSION 4 | SESSION 5 |  |
| EXPLORE | DEVELOP | DEVELOP | REFINE | REFINE | LESSON 5 |

## Centers, Differentiation, and Practice

CENTERS Student-Led Practice

## Session Centers

Counter Compare
Children strengthen understanding that they can compare two groups of objects to determine which has more or less, or whether they have the same, by continuing the activity in a center.

## Centers Library

 SKILL REVIEW: Tile Puzzles FLUENCY: Show It
## DIFFERENTIATION | Teacher-Led Small Group

 RETEACHUse with children who need support to decide which group has more or less.
Materials: 5 markers with removable caps

- Remove the cap from each marker. Give the 5 caps to the child.
- Instruct the child to place some or all of the caps in front of them.
- Choose some or all of the markers and place them in front of the child.
- Have the child arrange both groups into rows and count to tell how many in each row.
- Ask questions like: Is there a cap for each marker? Not enough caps? Too many markers? Ask the child which group has more and how they know. Repeat with asking the child to determine which group has less.


## EXTEND

Use with children who readily compare two given numbers.
Materials: 5 two-color counters, Number and Dot Row Cards ( 0 to 5,2 sets)

- Mix up the number cards. Lay 10 of the cards faceup on the table.
- Put out a group of 1 to 4 counters.
- Children work to quickly pick up as many cards as they can that show more.
- Replace cards to make 10 total and repeat with new counters.
- Repeat, varying the game by having children pick up cards that show less.



## Digital Practice

Learning Games: Bounce,
Hungry Guppy
© i-Ready Personalized Instruction

Independent Practice options include Student Worktext practice pages, Fluency and Skills Practice, digital practice, and digital games.

Reteach mathematical concepts using the teacher-led activity with children who need additional support.

Extend mathematical concepts with the teacher-led activity for children who demonstrate proficiency.

## CLOSE

MATH REFLECTION Think about some ways you compared numbers. What did you discover about more, less, and the same?
SELF REFLECTION Why is it important to keep your math activity space organized?
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Close prompts are provided at the end of each session to invite children to reflect on the math of the lesson, as well their own learning habits.

