

YES! YOU CAN M.A.T.H.

Cindy Dickinson

National Consultant for BJU Press

cdickins@bjupress.com

MAKE it interesting by promoting student engagement

M

- Activate their prior knowledge
- Help them connect with the new content
- Give them choices
- Use math games and activities
 - Scavenger Hunts
 - Who Can Spot the Mistake?
 - Math for Love



ADD to their knowledge through instruction

A

- Use manipulatives
- Use instructional aids
- Get them talking
- Utilize the strategies in the Teach for Understanding part of the Teacher Edition

TAKE it the next level so they can apply what they have learned

T

- Complete the front of the worktext page as guided practice
- Have them complete the back of the page independently
- Complete daily reviews within worktext (K5 to grade 3) or online (grades 4 and 5)
- Use pages from the reviews/activities books for homework or extra practice
- Include spiral review from the practice and review suggested in the lesson
- Incorporate STEM activities (grades K5, 1, 2, 4 and 5)

Find out HOW they did by assessing

H

- Formatively assess through questioning and the use of manipulatives
- Record grades from reviews/activities book pages
- Complete chapter reviews independently to see if students are prepared for the test
- Send home second chapter review from reviews/activities books as a study guide
- Complete cumulative reviews and use the feedback to provide extra help as needed
- Print and utilize fact reviews from Trove
- Suggest online sources for fact practice
 - AfterSchoolHelp.com
 - XtraMath.org
 - 99Math.com



Scan for Resources



1. What is the question?
2. What information is given?
3. What operation (+, −, ×, ÷) and equation do you use? Why?
4. Explain how your answer makes sense.
5. Write a sentence to answer the question.



Fill the Stairs

Topics: Comparison of two-digit numbers, estimation

Materials: Fill the Stairs sheet, 2 ten-sided dice per game (different colors)

Common Core: 1.NBT.3, MP1, MP6, MP7

The numbers have to increase as they go up the stairs. Where should each number go?

Why we love Fill the Stairs

This clever game requires the thoughtful placement of two-digit numbers in order, before all the numbers are known. Fill the Stairs is a compelling and fun game that holds up after repeated playing.

The Launch

For the first game, you can play at a station with everyone together. Everyone gets a Fill the Stairs worksheet for each game. Choose one 10-sided die to be the “tens” die, and the other ten-sided die to be the “ones” die. When you roll them both, you get a one- or two-digit number. After every roll, everyone places the number that was rolled where they like on the stairs. The only rule is that numbers higher up on the stairs must be greater than all the numbers below them. If a player can’t use a number, it gets written under the stairs as a “discard.” Whoever fill up their stairs first is the winner.

Once you’ve played a game altogether, students can play on their own in pairs or groups of three. The best way to play is with everyone in one game using the same rolls, so everyone has something to do on every turn.

Prompts and Questions

- Where are you going to put that number? Why there?
- What number are you hoping for on the next roll?
- How do you know that number is bigger than that one?

The Wrap

Discuss strategies with the students. What’s the best way to win the game? Can students find any potential problems with the proposed strategies of their peers?

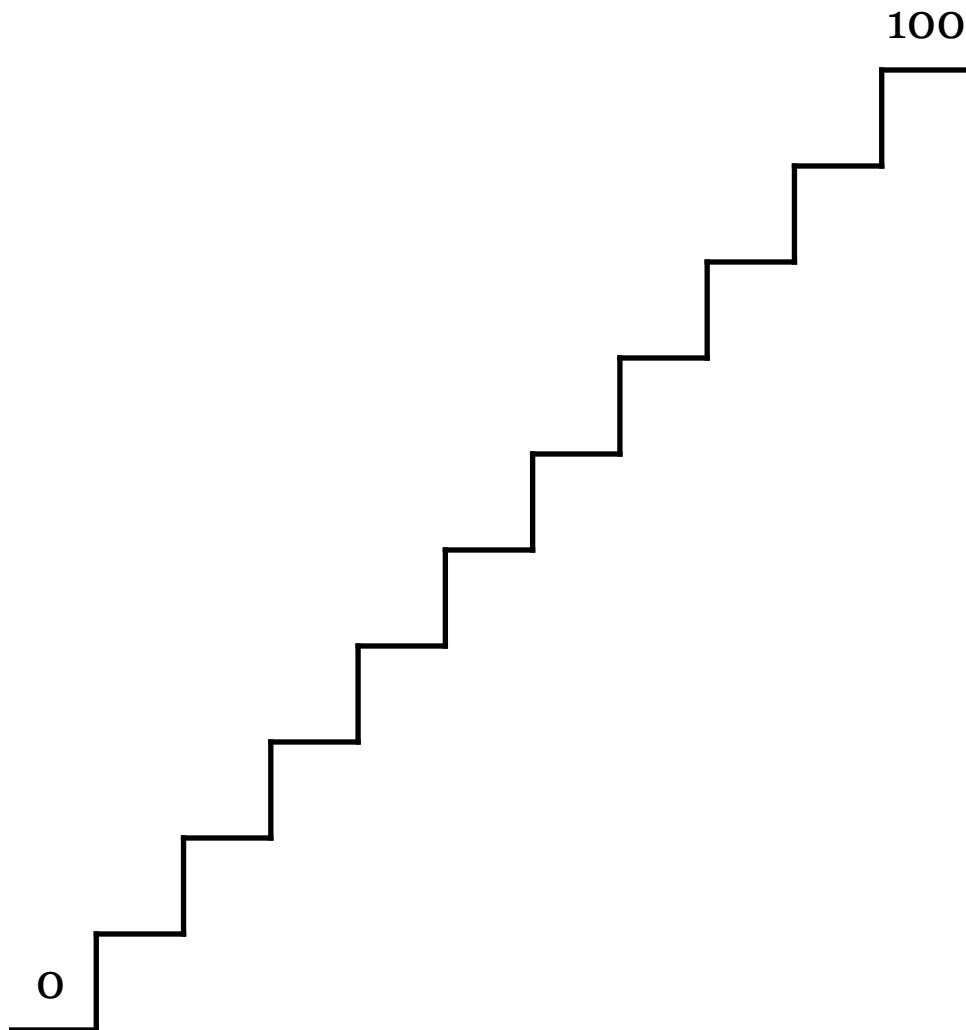
Tips for the classroom

1. If the dice roll off the table, they should re-roll.
2. A quick chant like “shake, shake, roll!” can help the game move, and avoid students spend too long shaking the dice.
3. Fill the Stairs can easily be played collaboratively rather than competitively. Students try to fill the stairs as a team with the fewest number of “wasted” moves.
4. Let students decide after each roll which digit gives the ten and which give the one.

Fill the Stairs

Roll the dice to make a two-digit number, and write it in on one of the stairs. Each number you write in must be bigger than all the numbers below it, and smaller than all the numbers above it. If you can't use a number, write down the number under the stairs, and skip your turn.

The game is over if someone fills in all the steps in their staircase.



BJU Press Math Resources

Math K5

- Cheddar’s Checkup is a cumulative review.
- Chapter review within the worktext can be used as a possible “test” option.
- STEM activities are in chapter 24.
- Suggestions for practice and review, learning centers, differentiated instruction, and extended activities can be found in the Teacher Edition.
- Instructional aids and math board ideas can be found in the Teacher Edition or on Trove.
- Math in the home segments can be found in the Teacher Edition.
- 1-2-3 write pages can be found on Trove.
- Teacher manipulatives are included in the teacher visual packet.
- Teacher visual packet can be found on Trove under charts.
- The Appendixes are found in the back of the Teacher Edition. They include songs, teaching tips, ideas for manipulative alternatives and management, PreCursive number strokes, and math background information for the teacher.

Math 1

- Cumulative reviews are available in both the worktext and reviews book. The cumulative review from chapter 1 is a kindergarten review.
- Chapter reviews within the reviews book can be used as a pre-assessment or as a study guide the night before the test.
- STEM activities are found once per quarter.
- Instructional aids can be found in the Teacher Edition or on Trove.
- The front sides of the reviews book pages mirror the lessons’ content. The back sides of the reviews book pages are spiral and fact review. These make good assessment pages.
- The answer key for the worktext and reviews book is found in the teacher edition.
- Extended activities and suggestions for differentiation are included in the teacher edition.
- Teacher resources including teaching tips, 82 enrichment pages, fact fun activities, fact reviews, flash cards, math background, and more can be found on Trove.
- Teacher manipulatives are included in the teacher visual packet.
- Teacher visual packet can be found on Trove under the visual category.
- Color copies for the chapter tests on money can be found on Trove.
- Speed drills can be found on AfterSchoolHelp.com.

Math 2

- Cumulative reviews are found in the reviews books. The cumulative review from chapter 1 is primarily a grade 1 review.
- Chapter reviews within the reviews book can be used as a pre-assessment or as a study guide the night before a test.
- STEM activities are found in lessons 4, 8, 12, and 16. Chapter 20 offers four additional coding activities.

- Suggestions for practice and review, differentiated instruction, and extended activities can be found in the Teacher Edition.
- The front sides of the reviews book pages mirror the lessons' content. These make good assessment pages. The back sides of the reviews book pages are spiral and fact reviews.
- The answer key for the worktext and student reviews book is found in the teacher edition.
- Instructional aids can be found in the Teacher Edition or on Trove.
- Color copies for the chapter tests on money can be found on Trove.
- Teacher manipulatives are included in the teacher visual packet.
- Teacher visual packet can be found on Trove under the visual category.
- Teacher resources including teaching tips, reteaching pages, fact fun activities, fact reviews, and more can be found on Trove.
- Test bank questions can be found on Trove.
- Speed drills can be found on AfterSchoolHelp.com.

Math 3

- Cumulative reviews are found in the reviews books. The cumulative review from chapter 1 is primarily a grade 2 review.
- Chapter reviews within the reviews book can be used as a pre-assessment or as a study guide the night before a test.
- The front sides of the reviews book pages mirror the lessons' content. These make good assessment pages. The back sides of the reviews book pages are primarily spiral review.
- The answer key for the worktext and student reviews book is found in the teacher edition.
- Instructional aids can be found in the Teacher Edition or on Trove.
- Teacher resources including fact reviews, a guide for math facts, fact fun activities, a facts charts, and more can be found on Trove.
- Teacher manipulatives are included in the teacher visual packet.
- Teacher visual packet can be found on Trove under the visual category.
- Links to helpful math videos can be found on Trove under the links category.
- Color copies of the chapter test with coins can be found on Trove.
- Test bank questions can be found on Trove.
- Speed drills can be found on AfterSchoolHelp.com.
- Reteaching pages can be found on TTO under the **3rd edition** under *Instructional Aids*.

Math 4

- Cumulative reviews are found in the activities books. The cumulative review from chapter 1 is primarily a grade 3 review.
- Chapter reviews within the activities book can be used as a pre-assessment or as a study guide the night before a test.
- STEAM activities are found one per chapter.
- The front sides of the activities book pages mirror the lessons' content. These make good assessment pages. The back sides of the activities book pages are primarily spiral review.

- The answer key for the student activities book can be purchased or is found on Trove.
- Teacher resources found at the back of the teacher edition can be found on Trove.
- Fact fun activities, fact reviews, facts chart, daily reviews (spiral review), and math background information can be found on Trove.
- Teacher manipulatives are included in the teacher visual packet.
- Teacher visual packet can be found on Trove under the visual category.
- Extended activities can be found on Trove.
- Test bank questions can be found on Trove.
- Color copies of the chapter test with coins can be found on Trove.
- Reteaching pages can be found on Trove.
- Extra practice opportunities and speed drills can be found on AfterSchoolHelp.com.

Math 5

- Cumulative reviews are found in the activities books. The cumulative review from chapter 1 is primarily a grade 4 review.
- Chapter reviews within the activities book can be used as a pre-assessment or as a study guide the night before a test.
- STEM activities are found every other chapter
- The front sides of the activities book pages mirror the lessons' content. These make good assessment pages. The back sides of the activities book pages are primarily spiral review.
- The answer key for the student activities manual is found in the teacher edition.
- The teacher resources found at the back of the teacher edition can be found on Trove.
- Test bank questions can be found on Trove.
- Fact reviews, daily review (spiral review), extended activities, and enrichment activities can be found on Trove.
- Extra practice opportunities and speed drills can be found on AfterSchoolHelp.com.