

# Unit 5: Bonus Unit: Step Up to 3rd Grade

Content Area: **Mathematics**  
Course(s): **Mathematics**  
Time Period: **Marking Period 4**  
Length: **3-4 Weeks**  
Status: **Published**

## Unit Overview

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In this unit, students be introduced to skills that they will further explore in 3rd Grade.

## Standards

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MA.3.OA.A.2	Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.
MA.3.OA.A.3	Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.
MA.3.OA.C.7	Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$ , one knows $40 \div 5 = 8$ ) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.
MA.3.NF.A.1	Understand a fraction $1/b$ as the quantity formed by 1 part when a whole is partitioned into $b$ equal parts; understand a fraction $a/b$ as the quantity formed by a parts of size $1/b$ .
MA.3.MD.D.8	Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.
MA.3.G.A.1	Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.

## Essential Questions

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- How can you identify shapes?
- What information can you gather from a fraction?

## Application of Knowledge and Skills...

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## **Students will know that...**

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- A circle is not a polygon
- A polygon must have line segments.
- Equal parts are the same size
- Hexagons have 6 sides
- Octagons have 8 sides
- Pentagons have 5 side
- The division symbol tells you to divide

## **Students will be skilled at...**

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- Drawing a picture and writing a story to solve a multiplication problem.
- Identifying and naming fractions that have more than one part of the whole
- Identifying fractions of a set of objects
- Making division stories and write division steps
- Making equal shares of objects by making equal groups
- Naming a polygon by the number of sides
- Naming and writing fractions
- Representing fractions using a picture
- Solving addition and subtraction problems that use geometry and measurements
- Using multiplication to help divide

## **Assessments**

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- basic facts timed tests
- benchmark tests
- end of year test- administered after completing program.
- Placement Test- administered prior to delivering the program.
- task cards
- topic math projects
- topic quick checks
- topic tests

## **Activities**

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**Problem of the Day**-Present a daily problem that serves as a review from the previous day's lesson.

**Vocabulary** - Have students create a chart for each new vocabulary word that includes the word's meaning and an example or use vocabulary cards as flash card game

**Station activities-** Each section has center activities to reinforce skill (leveled)

- Clip and Cover: Students answer questions and try to cover four spaces in a row on a gameboard to win.
- Display the Digits: Students answer the problem and display the tile that represents the answer.
- Quick Questions: Toss number cubes and answers questions.
- Teamwork: Students in turn explain the steps in a multi-step process.
- Think Together: Students choose and discuss answers to problems.
- Tic Tac Toe: Students use algebraic rules to compute solutions to problems
- Toss and Talk: Students toss number cubes and explain how to solve resulting problems.

**STEM** - Certain sections have Going Digital integrating technology and the use of calculators such as:

- Making shapes p. 412

**Interactive Learning** - Problem-Based Interactive learning activities at the beginning of each topic such as using tools, structure, reasoning, generalizing, assessing reasonableness and modeling.

**Topic Opener Projects** - There is a math project for each topic (Topic 12). See Cross Disciplinary instruction for project and page numbers.

**Practice work** - Communicator practice can be done using Independent work and problem- solving practice problems in each section.

**Ticket to Leave** - Quick Checks on each sections

### **Activities to Differentiate Instruction**

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**General strategies for modification of this curriculum for students with special needs, ELL, and gifted learners:**

- **General strategies:**
  - preferential seating
  - manipulatives
  - modified workbook pages
  - practice or enrich homework pages
- **Center activities** - There are leveled center activities for each section. There is a separate activity for "Intervention", and then "On-Level" and "Advanced" are in spiral book.
- **Leveled practice pages** - There are three leveled (Reteaching, Practice, and Enrichment) sheets that can be used for practice or homework.
- **Math Concept Readers:** These readers allow the student to read the story at different levels- above level, on level, and below level. (also available on line with audio) Complete the Think and Respond and Write Math questions at the conclusion of each book.
- **Assessment-** Using Quick Check Review can determine differentiated instruction levels using sample answers and using the rubric at the Close/ Assess and Differentiate section in the teacher edition.

## **Resources**

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Topic Category in book form:

Step Up to Grade 3

Master Enrichment pages

Master Reteaching pages

Master Practice pages

Student Edition workbook

On line Resources available at [www.pearsonrealize.com](http://www.pearsonrealize.com)

- Teacher Edition (TE) Textbook
- Student Edition (SE) Textbook
- Tests on line
- Concepts videos
- Math Tools

## 21st Century Skills

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CRP.K-12.CRP2.1

Career-ready individuals readily access and use the knowledge and skills acquired through experience and education to be more productive. They make connections between abstract concepts with real-world applications, and they make correct insights about when it is appropriate to apply the use of an academic skill in a workplace situation.

CRP.K-12.CRP4.1

Career-ready individuals communicate thoughts, ideas, and action plans with clarity, whether using written, verbal, and/or visual methods. They communicate in the workplace with clarity and purpose to make maximum use of their own and others' time. They are excellent writers; they master conventions, word choice, and organization, and use effective tone and presentation skills to articulate ideas. They are skilled at interacting with others; they are active listeners and speak clearly and with purpose. Career-ready individuals think about the audience for their communication and prepare accordingly to ensure the desired outcome.

CRP.K-12.CRP8.1

Career-ready individuals readily recognize problems in the workplace, understand the nature of the problem, and devise effective plans to solve the problem. They are aware of problems when they occur and take action quickly to address the problem; they thoughtfully investigate the root cause of the problem prior to introducing solutions. They carefully consider the options to solve the problem. Once a solution is agreed upon, they follow through to ensure the problem is solved, whether through their own actions or the actions of others.