5th Grade Pacing Guide

Green: Major Clusters
Blue: Supporting Clusters
Yellow: Additional Clusters
Instructional Content Nav - Mathematics: Focus by Grade Level

Trimester 1
(Ends December 15th)

Chapter 1 (Place Value, Multiplication, Expressions)

- Lesson 1.1 - As is
- Lesson 1.2 - As is
- Lesson 1.3 - As is
- Lesson 1.4 - As is
- Lesson 1.5 - As is
- Lesson 1.6 - As is
- Lesson 1.7 - As is
    - Add the following lesson from EngageNY:
        - Multiply Multi-Digit Whole Numbers Using Standard Algorithm And Estimation
- Lesson 1.8 - As is
- Lesson 1.9 - DELETE
- Lesson 1.10 - DELETE (move to later in the year)
- Lesson 1.11 - DELETE (move to later in the year)
- Lesson 1.12 - DELETE (move to later in the year)

Chapter 2 (Divide Whole Numbers)

- Lesson 2.1 - As is
- Lesson 2.2 - As is
    - Add the following lesson from Internet4Classrooms:

        - **Divide 2-to-four-Digit One-Digit Number**
- **Lesson 2.3 - USE Lesson 2.5 instead**
    - **Add the following lesson from Learn Zillion:**
        - **Use an area model for division of 4-digit dividends by 2-digit divisors**
- **Lesson 2.4 - DELETE for now**
- **Lesson 2.5 - Bring up to Lesson 2.3**
- **Lesson 2.6 - As is**
- **Lesson 2.7 - As is**
- **Lesson 2.8 - As is**
- **Lesson 2.9 - As is**

Chapter 3 (Add and Subtract Decimals)

- **Add a lesson on tenths and hundredths prior to the start of the chapter.**
    - **Ensure students can read decimals (i.e. 4.2 as four and two tenths, 65.09 as sixty-five and nine hundredths, etc)**
    - **Ensure students can rewrite fractions and decimals (i.e. 0.8 is 8/10, 5/100 is 0.05, etc.)**
    - **Ensure students can rewrite the word form of decimals to hundredths on a place value chart.**
- **Lesson 3.1 - As is**
    - **Ensure students understand that place values to the LEFT are 10 times greater than the place value to the right. (Moving two place values to the left is 100 times greater and so on.)**
    - **Ensure students understand that place values to the RIGHT are 1/10 of the place value to the left. (Moving two place values to the right is 1/100 of the value and so on.)**
    - **Compare place value positions (i.e The value of the 6 in 26.495 is ____ the value of the 6 in 17.64).**

- IXL Skills:
    - What decimal number is illustrated?
    - Place values in decimal numbers
    - Relationship between decimal place values
- Lesson 3.2 - As is
    - Add the following lesson from EngageNY:
        - Name Decimal Fractions In Various Forms
    - Ensure students can identify various forms of a number: word form, standard form, and expanded notation.
    - Ensure students can identify the value of a digit in standard form.
    - Ensure students can read decimals through thousandths (i.e. 5.789 is five and seven hundred eighty-nine thousandths).
    - IXL Skills:
        - Value of a digit in a decimal number
        - Understanding decimals expressed in words
        - Convert decimals between standard and expanded form using fractions
- Lesson 3.3 - As is
    - When comparing and ordering decimals, students should use PLACE VALUE positions.
    - Students must know that adding zeros at the end of a decimal does NOT change the value of the decimal (i.e. 1.2 = 1.20).
    - Compare decimals that have different numbers of decimal places.
    - Order decimals from least to greatest AND greatest to least.
    - IXL Skills:
        - Compare decimals to a model
        - Compare decimal numbers
        - Put decimal numbers in order
- Prior to lesson 3.4, review rounding whole numbers using place value.

- **Lesson 3.4 - As is**
  - **Add the following lesson from EngageNY:**
    - **Rounding Decimals To Any Place**
  - **Use place value to round decimals.**
  - **Round decimals to the nearest whole number, tenth, and hundredth.**
  - **IXL Skills:**
    - **Round decimals**
    - **Compare, order, and round decimals: word problems**
- **Lesson 3.5 - As is (ONE DAY lesson)**
  - **IXL Skills:**
    - **Add decimal numbers using blocks**
- **Lesson 3.6 - As is (ONE DAY lesson)**
- **Lesson 3.7 - As is (ONE DAY lesson)**
  - **IXL Skills:**
    - **Estimate sums and differences of decimals using rounding**
    - **Estimate sums and differences of decimals using benchmarks**
- **Lesson 3.8 - As is**
  - **Addition templates should be used to introduce the skill. Only add decimals through hundredths.**
  - **Ensure students are lining up place values and adding zeros so the addends have the same number of decimal places.**
  - **Use estimation to help check the reasonableness of the sums.**
  - **Add examples of adding whole numbers with decimals (i.e. 3.45 + 13).**
  - **IXL Skills:**
    - **Add decimal numbers**
    - **Choose decimals with a particular sum**
    - **Complete the decimal addition sentence**
- **Prior to lesson 3.9, review subtracting whole numbers (especially when regrouping across zeros).**

- **Lesson 3.9 - As is**
  - **Subtraction templates should be used to introduce the skill. Only subtract decimals through hundredths.**
  - **Ensure students are lining up place values and adding zeros so the numbers have the same number of decimal places.**
  - **Use estimation to help check the reasonableness of the differences.**
  - **Add more examples for subtracting decimals across zeros (i.e. 45.03 - 27.9).**
  - **IXL Skills:**
    - **Subtract decimal numbers**
    - **Choose decimals with a particular difference**
    - **Complete the decimal subtraction sentence**
- **Lesson 3.10 - DELETE**
- **Lesson 3.11 - As is**
  - **Add more multi-step examples that combine both addition and subtraction.**
  - **IXL Skills:**
    - **Add and subtract money amounts: two-step word problems**
    - **Keeping financial records**
- **Lesson 3.12 - As is**
  - **Ensure students can identify and apply the commutative and associative properties when adding three addends.**
  - **Add more examples of adding addends with different numbers of decimal places and whole numbers (i.e. 24 + 6.85 + 9.3).**
  - **IXL SKills:**
    - **Add and subtract decimal numbers**
    - **Add and subtract decimals: word problems**
    - **Choose decimals with a particular sum or difference**
    - **Complete the decimal addition or subtraction sentence**

Chapter 4 (Multiply Decimals)

***Unit Vocabulary, Reading Start Up, and Are You Ready should take 1 full day.**

- **4.1 - As is**
- **4.2 - As is**
- **4.3 - As is**
- **4.4 - As is**
- **4.5 - As is**
- **4.6 - As is**
- **4.7 - As is**
- **4.8 - As is**

Trimester 2

(Ends March 17th)

Chapter 5 (Divide Decimals)

***Unit Vocabulary, Reading Start Up, and Are You Ready should take 1 full day.**

- **5.1 - As is**
- **5.2 - As is**
- **5.3 - As is**
- **5.4 - As is**
- **5.5 - As is**
- **5.6 - As is**
- **5.7 - As is**
- **5.8 - As is**

Chapter 6 (Add/Subtract Fractions)

***Unit Vocabulary, Reading Start Up, and Are You Ready should take 1 full day.**

- **6.1 - As is**

- 6.2 - As is
- 6.3 - As is
- 6.4 - As is
- 6.5 - As is
- 6.6 - As is
- 6.7 - As is
- 6.8 - As is
- 6.9 - As is
- 6.10 - As is

Chapter 7 and 8 (Multiply/Divide Fractions)

*** MODIFY ENTIRE CHAPTERS**

*** Use Lessons from EngageNY along with the Go Math book**

- 7.1 - https://www.unbounded.org/math/grade-5/module-4/topic-b/lesson-2
- 7.2 - https://www.unbounded.org/math/grade-5/module-4/topic-b/lesson-3
- 7.3 - https://www.unbounded.org/math/grade-5/module-4/topic-b/lesson-4
- 7.4 - https://www.unbounded.org/math/grade-5/module-4/topic-b/lesson-5
- 7.5 - https://www.unbounded.org/math/grade-5/module-4/topic-c/lesson-6
- 7.6 - https://www.unbounded.org/math/grade-5/module-4/topic-c/lesson-7
- 7.7 - https://www.unbounded.org/math/grade-5/module-4/topic-c/lesson-8
- 7.8 - https://www.unbounded.org/math/grade-5/module-4/topic-c/lesson-9
- 7.9 - https://www.unbounded.org/math/grade-5/module-4/topic-d/lesson-10
- 7.10 - https://www.unbounded.org/math/grade-5/module-4/topic-d/lesson-11
- 7. 11 - https://www.unbounded.org/math/grade-5/module-4/topic-d/lesson-12
- 7.12 - https://www.unbounded.org/math/grade-5/module-4/topic-e/lesson-13
- 7.13 - https://www.unbounded.org/math/grade-5/module-4/topic-e/lesson-14
- 7.14 - https://www.unbounded.org/math/grade-5/module-4/topic-e/lesson-15
- 7.15 - https://www.unbounded.org/math/grade-5/module-4/topic-e/lesson-16
- 7.16 - https://www.unbounded.org/math/grade-5/module-4/topic-e/lesson-17
- 7.17 - https://www.unbounded.org/math/grade-5/module-4/topic-e/lesson-18

- 7.18 - https://www.unbounded.org/math/grade-5/module-4/topic-e/lesson-19
- 7.19 - https://www.unbounded.org/math/grade-5/module-4/topic-e/lesson-20
- 7.20 - https://www.unbounded.org/math/grade-5/module-4/topic-f/lesson-21
- 7.21 - https://www.unbounded.org/math/grade-5/module-4/topic-f/lesson-22
- 7.22 - https://www.unbounded.org/math/grade-5/module-4/topic-f/lesson-23
- 7.23 - https://www.unbounded.org/math/grade-5/module-4/topic-f/lesson-24
- 7.24 - https://www.unbounded.org/math/grade-5/module-4/topic-g/lesson-25
- 7.25 - https://www.unbounded.org/math/grade-5/module-4/topic-g/lesson-26
- 7.26 - https://www.unbounded.org/math/grade-5/module-4/topic-g/lesson-27
- 7.27 - https://www.unbounded.org/math/grade-5/module-4/topic-g/lesson-28
- 7.28 - https://www.unbounded.org/math/grade-5/module-4/topic-g/lesson-29
- 7. 29 - https://www.unbounded.org/math/grade-5/module-4/topic-g/lesson-30
- 7.30 - https://www.unbounded.org/math/grade-5/module-4/topic-g/lesson-31
- 7.31 - https://www.unbounded.org/math/grade-5/module-4/topic-h/lesson-32
- 7.32 - https://www.unbounded.org/math/grade-5/module-4/topic-h/lesson-33

Trimester 3

(Ends June 24th)

Chapter 11 (Geometry and Volume)

***Unit Vocabulary, Reading Start Up, and Are You Ready should take 1 full day.**

- 11.1 - As is
- 11.2 - As is
- 11.3 - As is
- 11.4 - DELETE
- 11.5 - As is
- 11.6 - As is
- 11.7 - DELETE
- 11.8 - As is

- 11.9 - As is
- 11.10 - As is
- 11.11 - As is
    - Add the following lessons from Learn Zillion:
        - https://learnzillion.com/lesson_plans/3124-8-understanding-volume-as-additive-c
        - https://learnzillion.com/lesson_plans/22586/

Chapter 10 (Convert Units of Measurement)

***Unit Vocabulary, Reading Start Up, and Are You Ready should take 1 full day.**

- 10.1 - As is
- 10.2 - As is
- 10.3 - As is
- 10.4 - As is
- 10.5 - As is
- 10.6 - As is
- 10.7 - As is

Chapter 9 (Algebra: Patterns and Graphing)

***Unit Vocabulary, Reading Start Up, and Are You Ready should take 1 full day.**

- 9.1 - MODIFY (skip questions that ask students to calculate the average)
    - Add the following lessons from EngageNY:
        - https://www.unbounded.org/math/grade-5/module-4/topic-a/lesson-1
- 9.2 - As is
    - Add the following lessons from EngageNY:
        - https://www.unbounded.org/math/grade-5/module-6/topic-a/lesson-3

- 9.3 - DELETE
- 9.4 - DELETE
- 9.5 - As is
- 9.6 - As is
- 9.7 - As is
- 1.10 - Move here
- 1.11 - Move here
- 1.12 - Move here

MAJOR, SUPPORTING, AND ADDITIONAL CLUSTERS FOR GRADE 5

Emphases are given at the cluster level. Refer to the Common Core State Standards for Mathematics for the specific standards that fall within each cluster.

Key: ■ Major Clusters ▢ Supporting Clusters ○ Additional Clusters

5.OA.A	○	Write and interpret numerical expressions.
5.OA.B	○	Analyze patterns and relationships.
5.NBT.A	■	Understand the place value system.
5.NBT.B	■	Perform operations with multi-digit whole numbers and with decimals to hundredths.
5.NF.A	■	Use equivalent fractions as a strategy to add and subtract fractions.
5.NF.B	■	Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
5.MD.A	▢	Convert like measurement units within a given measurement system.
5.MD.B	▢	Represent and interpret data.
5.MD.C	■	Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.
5.G.A	○	Graph points on the coordinate plane to solve real-world and mathematical problems.
5.G.B	○	Classify two-dimensional figures into categories based on their properties.