

2020-2021 LEARNING RECOVERY

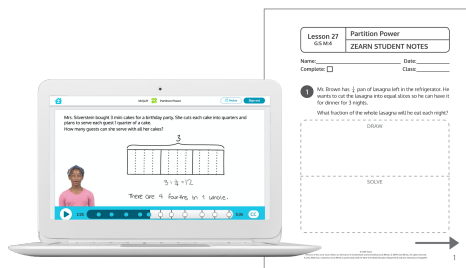
Grade 4 Diagnostic and Scope & Sequence



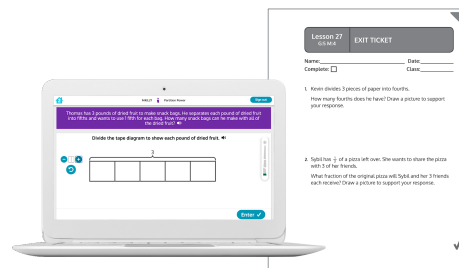
A revised scope and sequence for 4th grade that integrates critical missed learning from 3rd grade with grade-level work, includes an upfront diagnostic assessment mission, and adheres to the following design principles:

- **Student-first**, re-engage students in a learning community and provide space for teachers to focus on student’s social and emotional well-being.
- **Practical and actionable**, provide teachers with a comprehensive, usable plan that can be adapted to various forms of hybrid-learning.
- **Efficient and coherent**, ensure students continue to understand math concepts in an intuitive and tangible way.

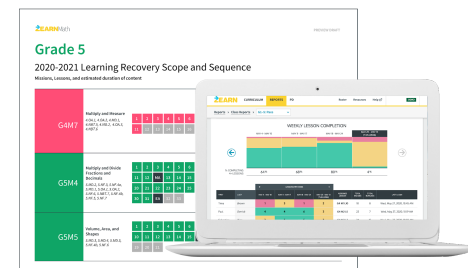
Zearn Math helps teachers and administrators support students with accessing the revised 4th grade scope and sequence by providing comprehensive materials, guidance and visibility.



Digital Lessons include built-in deep support on concepts from previous topics and grades



Upfront diagnostic assessment mission and ongoing formative assessments



Real-time reports and guidance to precisely track and identify student learning and struggle

Grade 4

2020-2021 Learning Recovery Scope and Sequence

Missions, Lessons, and estimated duration of content

Each Zearn Math digital lesson includes built-in, deep support on concepts from previous topics and grades, which allows for a coherent, manageable and efficient learning experience for all students. Zearn Math digital lessons diagnose unfinished learnings while supporting students to master grade-level content.

Mission Title	Lessons	Assessment	Total Lessons	Instruction Days
G3M6 Display Data <small>3.MD.3, 3.MD.4</small>	<div style="display: flex; justify-content: space-around; text-align: center;"> 123456789 </div> <p><i>Diagnostic Mission: Based on student performance in the diagnostic mission, teachers can visit our Foundational Lesson Guidance for additional student support.</i></p> <p>The work with categorical and measurement data in this mission, which includes fractions and more sophisticated analysis questions, will serve as an upfront diagnostic assessment to inform teacher-led instruction, support students with accessing the first mission of 4th grade, and help identify individual students who may need additional support.</p> <p>Curriculum Study PD: Prior to teaching this module, complete the Overview Video and Small Group Lesson Video from G3M6 Curriculum Study Session (~30 minutes)</p>	—	9	9

G4M1

Add, Subtract, & Round

4.NBT.1, 4.NBT.2, 4.OA.1, 4.NBT.3, 4.OA.3, 4.NBT.4

1	2	3	4	5	6	7	8	9	10
MA	11	12	13	14	15	16	X	18	19
EA									

2 Assessments

18

20

Students extend their understanding of place and our base ten number system to explore the relationship between adjacent places and find precise answers to addition and subtraction problems using the standard algorithm.

Curriculum Study PD: Prior to teaching this module, complete the full G4M1 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)

G4M2

Measure and Solve

4.MD.1, 4.MD.2

1	2	3	4	5	EA
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1 Assessment

5

6

Students apply place value understanding to metric units of length, mass, and capacity by using the place value chart to bundle and unbundle as they move between larger and smaller units to solve problems.

Curriculum Study PD: Prior to teaching this module, complete the full G4M2 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)

G4M3

Multiply and Divide Big Numbers

4.OA.1, 4.OA.2, 4. 4.MD.3, 4.OA.3, 4.OA.4, 4.NBT.5, 4.NBT.1, 4.NBT.6

1	2	3	4	5	6	7	8	9	X
11	12	13	MA	14	15	16	17	18	19
20	X	22	23	24	25	26	27	28	29
30	31	32	EA	X	34	35	36	37	X

2 Assessments

30

32

Students learn the lifelong skills of multiplying and dividing big numbers by developing a deep understanding of the strategies that will enable them to multiply and divide on paper and in their heads.

Curriculum Study PD: Prior to teaching this module, complete the full G4M3 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)

G4M4

Construct Lines, Angles, & Shapes

4.G.1, 4.MD.5, 4.MD.6, 4.MD.7, 4.G.2, 4.G.3

1	2	3	4	5	6	7	8	MA	9
10	X	12	13	14	15	EA	X		

2 Assessments

14

16

Students are introduced to a new language—geometry—and build an understanding of angles and angle measurement.

Curriculum Study PD: Prior to teaching this module, complete the full G4M4 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)

G3M5

Fractions as Numbers

3.NF.1, 3.NF.3c, 3.G.2, 3.NF.2ab, 3.NF.3cd

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	X

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11

11

Diagnostic Mission: Based on student performance in the diagnostic mission, teachers can instruct students who need additional support to complete the remaining G3M5 lessons. For further support, teachers can visit our Foundational Lesson Guidance.

The introductory work in this mission of understanding fractions as a single number will serve as a second diagnostic unit and equip students with the requisite knowledge needed to access grade 4 fraction concepts: fraction equivalence and an introduction to adding and subtracting fractions.

Curriculum Study PD: Prior to teaching this module, complete the Overview Video and Small Group Lesson Video from G3M5 Curriculum Study Session (~30 minutes)

G4M5

Equivalent Fractions

4.NF.3b, 4.NF.4a, 4.NF.3a, 4.NF.1, 4.NF.2, 4.NF.3ad, 4.MD.2, 4.NF.3, 4.MD.4, 4.NBT.6, 4.NF.3c, 4.NF.4, 4.OA.2

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	MA	22	23	24	25	26	27	28	29
30	31	32	33	X	35	36	37	X	39
40	EA	X							

2 Assessments

38

40

Students learn how to manipulate fractions by comparing fractions, evaluating equivalence, and exploring how the same methods they used for whole number operations can be used to add, subtract, and multiply fractions.

Curriculum Study PD: Prior to teaching this module, complete the full G4M5 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)

G4M6

Decimal Fractions

4.NF.6, 4.NBT.1, 4.MD.1, 4.NF.5, 4.NF.1, 4.NF.7, 4.MD.2, 4.NF.3c

1	2	3	4	5	6	7	8	MA	9
10	X	12	13	14	EA	15	16		

2 Assessments

13

15

Students are introduced to decimals as extensions of fractions, and explore the coherence between fractions and decimals both in language and visual representations, enabling them to begin building an understanding of arithmetic with decimals.

Curriculum Study PD: Prior to teaching this module, complete the full G4M6 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)

G4M7

Multiply and Measure

4.OA.1, 4.OA.2, 4.MD.1, 4.NBT.5, 4.MD.2

1	2	3	4	5	EA*	6	7	X	X
10	11	12	13	14	X	X	X	X	

1 Assessment

5

6

* Exclude problems 3-5 from the EA

Students have the opportunity to synthesize what they've learned in 4th grade and apply it in problem-solving contexts, which will equip them to engage in 5th grade word problems and build the foundation for the study of larger ideas in Middle School, such as ratios and rates.

Curriculum Study PD: Prior to teaching this module, complete the full G4M7 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)

Total

12 Assessments

143 Lessons

155 Instruction Days

- Grade 4 lesson: daily fluency, guided practice and assessment
- Grade 3 lesson: daily fluency, guided practice and assessment
- Excluded lessons for the 2020-21 school year (can be completed outside of core math instruction)
- X** Omitted curriculum lesson
- MA** Mid-Mission Assessment (any adjustments needed for the assessments due to excluded lessons are noted in each mission)
- EA** End-of-Mission Assessment (any adjustments needed for the assessments due to excluded lessons are noted in each mission)