2020-2021 LEARNING RECOVERY

Grade 5 Diagnostic and Scope & Sequence

A revised scope and sequence for 5th grade that integrates critical missed learning from 4th 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 5th 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
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.

<table>
<thead>
<tr>
<th>Mission Title</th>
<th>Lessons</th>
<th>Assessment</th>
<th>Total Lessons</th>
<th>Instruction Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>G4M6</td>
<td>1 12</td>
<td>2 13</td>
<td>3 14</td>
<td>4 15</td>
</tr>
</tbody>
</table>

**Diagnostic Mission:** Based on student performance in the diagnostic mission, teachers can instruct students who need additional support to complete the remaining G4M6 lessons. For further support, teachers can visit our Foundational Lesson Guidance.

The concrete decimal work in this mission will serve as an upfront diagnostic assessment to inform teacher-led instruction, support students with accessing the first mission of 5th grade, and help identify individual students who may need additional support.

**Curriculum Study PD:** Prior to teaching this module, complete the Overview Video and Small Group Lesson Video from G4M6 Curriculum Study Session (~30 minutes)
### G5M1
**Place Value with Decimal Fractions**

5.NBT.1, 5.NBT.2, 5.NBT.3, 5.NBT.4, 5.NBT.7, 5.MD.1

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>MA</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>EA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students extend their understanding of whole numbers, decimals, and fractions to build a deep understanding of place value and begin adding, subtracting, multiplying and dividing decimals.

**Curriculum Study PD:** Prior to teaching this module, complete the full G5M1 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)

### G5M2
**Base Ten Operations**

5.NBT.1, 5.NBT.2, 5.OA.1, 5.OA.2, 5.NBT.5, 5.NBT.7, 5.MD.1, 5.NBT.6

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>MA</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
</tbody>
</table>

Students combine their understanding of the base ten number system and properties of operations to perform arithmetic operations and solve more sophisticated, real-world problems with whole numbers and decimals.

**Curriculum Study PD:** Prior to teaching this module, complete the full G5M2 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)
**Diagnostic Mission:** Based on student performance in the diagnostic mission, teachers can instruct students who need additional support to complete the remaining G4M5 lessons. For further support, teachers can visit our Foundational Lesson Guidance.

The composing and decomposing fractions work from this mission will serve as a second diagnostic unit and provide an efficient, seamless learning progression for students to move to adding and subtracting fractions with unlike denominators.

**Curriculum Study PD:** Prior to teaching this module, complete the Overview Video and Small Group Lesson Video from G4M5 Curriculum Study Session (~25-30 minutes)
### G5M3
#### Add and Subtract Fractions
4.NF.1, 4.NF.3c, 4.NF.3d, 5.NF.1, 5.NF.2

Students extend their understanding of fraction equivalence to add and subtract fractions with unlike denominators by starting in the concrete with area models, moving to the pictorial with the number line, and concluding in the abstract with numeric methods.

**Curriculum Study PD:** Prior to teaching this module, complete the full G5M3 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, 4.OA.3, 4.NBT.6

**Diagnostic Mission:** Based on student performance in the diagnostic mission, teachers can instruct students who need additional support to complete the remaining G4M7 lessons. For further support, teachers can visit our Foundational Lesson Guidance.

The measurement work in this mission offers a concrete entryway into multiplication and division of fractions, and will support students with accessing upcoming 5th grade fraction work.

**Curriculum Study PD:** Prior to teaching this module, complete the Overview Video and Small Group Lesson Video from G4M7 Curriculum Study Session (~30 minutes)
### G5M4
#### Multiply and Divide Fractions and Decimals

5.MD.2, 5.NF.3, 5.NF.4a, 5.MD.1, 5.OA.1, 5.OA.2, 5.NF.6, 5.NBT.7, 5.NF.4b, 5.NF.5, 5.NF.7

<p>| | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>12</td>
<td>MA</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>X</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>31</td>
<td>EA</td>
<td>32</td>
<td>33</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students extend their understanding of multiplication and division of whole numbers to multiply and divide fractions through the context of measurement.

**Curriculum Study PD:** Prior to teaching this module, complete the full G5M4 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)

### G5M5
#### Volume, Area, and Shapes

5.MD.3, 5.MD.4, 5.MD.5, 5.NF.4b, 5.NF.6

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>MA</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>MA</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>EA*</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>20</td>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students build a deep understanding of volume by starting in the concrete with counting unit cubes packed in a prism to find the volume and then moving to more efficient, abstract ways of calculating volume (e.g., using multiplication).

**Curriculum Study PD:** Prior to teaching this module, complete the full G5M5 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)

* Exclude problem 4 from the EA
Students extend their work with the number line to build a new place—the coordinate plane—to record numerical data and represent relationships between quantities.

**Curriculum Study PD:** Prior to teaching this module, complete the full G5M6 Curriculum Study Session — Overview, Fluency, Word Problem, Small Group Lessons (~60 minutes)