

Amy Morley Chief School Administrator *Kimberly Fleetwood Business Administrator* 

#### Grade 3 Unit 5- Dates: 4/7/25 - 5/2/25

#### **Rationale for Unit 5 Expectations**

Unit 5 centers on problem solving with measurement. Learners extend upon their work with time to the nearest 5 minutes in grade 2 to telling time to the nearest minute. They then delve into solving real world problems involving elapsed time. Learners measure and estimate liquid volumes and masses. They solve one-step word problems involving masses or volumes using the four operations.

#### **Unit 5 Description & Expectations**

Days of Instruction: 14 days (\*NJSLA 5/5 - 5/9?) Unit Completion Date: 5/2 Unit Themes: Measurement of Time, Mass, and Volume

Topic: Time Topic: Liquid Volume and Mass Topic: Applying Our Knowledge



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| Whole Group Instruction  | Differentiation: Teacher Table   | Differentiation: Independent<br>Practice/Small Group Center   |
|--|--|---|
| Guidelines   |  |   |
| 30-45 minutes of daily instruction using Core Resources  | 30-45 minutes of c   | daily differentiation   |
| Number Sense Making Routines: (5-10 minutes daily)<br>Number sense is built through experiences. Vary your sense making<br>routines based on the needs of your classroom. They may be a whole group<br>activity, but they also may be done as a small group depending upon the<br>need. Example areas of focus: Verbal Counting, Object Counting, Cardinality, | Number of groups to meet with<br>each day: two<br>When planning for<br>differentiation, it is important to | Activities should be aligned to<br>specific skills & standards<br>addressed during whole group<br>instruction and practice of<br>fluency standards. |



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| Subitizing, Spatial Relationships, One/Two More & Less, Benchmark                          | <mark>first think about what each</mark>     |  |
|--|--|--|
| Numbers, Part-Part-Whole, Magnitude, etc.  | <mark>student needs.  You may have</mark>    |  |
|  | different focuses for different              |  |
| Core Resource for Whole Group Instruction: Ready Classroom Math (30-45                     | groups of students. Below are                |  |
| minutes daily)   | suggestions to consider when                 |  |
|  | planning for small group                     |  |
| Ready Classroom Math design & expectations:  | differentiated instruction.                  |  |
| Understand Lessons - Focus on developing conceptual understanding and                      | Gifted Students: When                        |  |
| help students connect new concepts to familiar ones as they learn new                      | <mark>planning for students who are</mark>   |  |
| skills and strategies.   | gifted, consider differentiating             |  |
| <ul> <li>Strategy Lessons - Focus on helping students persevere in solving</li> </ul>      | the content, process or product.             |  |
| problems, discuss solution strategies, and compare multiple                                | <mark>Tier I Remedial Groups:</mark> When    |  |
| representations through the Try-Discuss-Connect routine. Strategy                          | planning for remedial work                   |  |
| Lessons are taught over multiple days (usually 3-5 days) and consist of                    | <mark>(additional work on grade level</mark> |  |
| different sessions.  | <mark>concepts), identify your</mark>        |  |
| <ul> <li>Explore Session(s) follow the Try-Discuss-Connect Routine and draw on</li> </ul>  | Essential Understandings,                    |  |
| students' prior knowledge and make connections to new concepts.                            | <mark>Objectives, Standards, skills</mark>   |  |
| <ul> <li>Develop Session(s) develop strategies and understanding through</li> </ul>        | being taught, and Learner                    |  |
| problem solving and discourse.   | Outcomes, then, anticipate the               |  |
| <ul> <li><i>Refine Session</i>(s) are when students work independently with a</li> </ul>   | <mark>most <u>common unique needs</u></mark> |  |
| partner, while the teacher monitors performance and differentiates                         | and common misconceptions.                   |  |
| instruction.   | Doing this will help you to plan             |  |
| <ul> <li>Math in Action Lessons (Grades 2-6) - Feature open-ended problems with</li> </ul> | effectively, and form groups                 |  |
| many points of entry and more than one possible solution. In Math in                       | based on daily exit tickets and              |  |



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Action Lessons students apply strategies and build procedural fluency.

Try - Discuss - Connect Routine is primarily used in Explore and Develop Sessions in Ready Math. Each Step in this routine will have expected Language Routines, Teacher Moves and Conversation Tips. Language *Routines* are predictable, repeatable formats that help students process word problems and communicate their growing understanding. Teacher Moves are powerful facilitation techniques to guide conversations in which students talk with each other rather than responding to the teacher. Conversation Tips are specific hints that show students what it means to engage in academic discourse. The six tips show students what it means to participate in academic discourse: listening attentively, explaining ideas, justifying, building on the ideas of others, disagreeing respectfully and making connections.

- Try It The teacher displays the *Start* guestion to draw on prior knowledge to the day's session. The teacher guides students in making sense of the problem, and to slow down to recognize and understand important information in the problem before beginning to solve. Teacher displays the problem and uses:
  - Language Routines Three Reads, Co-Crafted Questions, Notice/Wonder and Say It Another Way
  - Teacher Moves Turn & Talk and Individual Think Time (Typically 10 seconds to 2 minutes)

Students apply what they have learned while making sense of the

Ready Unit Prerequisite Report. Support students using scaffolding and/or additional practice for grade level concepts and skills. Tier II or Tier III Remedial Groups: When planning your grade level instruction for students that are in Tier II or Tier III considerations of each individual students' Math Intervention Plan need to be taken. Interventions and number sense relationships should be leveraged to support students with grade level content (bridging foundational concepts to support students' work at grade level content). Resources should be aligned to core content instructional resources (ie, Tools for Instruction, Fluency Skills & Practice pages, Prerequisite



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| much lows to upper and the situation wine a Dout Dout M/kels much all                    | Lessons Detende Astivities        |   |
|--|-----------------------------------|---|
| problem to represent the situation <mark>using a Part-Part-Whole model</mark> and        | Lessons, Reteach Activities,      |   |
| begin solving.   | Vocabulary pages, etc.), while a  |   |
| <ul> <li>Discuss It - Students work in pairs to share their thinking - even</li> </ul>   | direct explicit connection        |   |
| incomplete thinking. Students should analyze their representations and                   | between intervention strategies   |   |
| strategies while using sentence frames when appropriate. The teacher                     | and grade level content is built. |   |
| strategically selects and sequences students' representations and                        |                                   |   |
| strategies based upon the learning goal of the lesson. While circulating                 |                                   |   |
| the teacher should use:  |                                   |   |
| <ul> <li>Language Routines - Compare &amp; Contrast and Collect &amp; Display</li> </ul> |                                   |   |
| <ul> <li>Teacher Moves - Turn &amp; Talk, Individual Think Time and Four Rs</li> </ul>   |                                   |   |
| (Repeat, Reword, Rephrase, Record)   |                                   |   |
| Selected students present and explain their solution methods and listen                  |                                   |   |
| to critiques of others. The teacher facilitates the discussion and the class             |                                   |   |
| looks at highlighted strategies in the <i>Picture It</i> and <i>Model It</i> sections.   |                                   |   |
| <ul> <li>Connect It - The teacher and students connect representations and</li> </ul>    |                                   |   |
| strategies using a combination of individual work time and partner and                   |                                   |   |
| whole-class discourse. Carefully selected questions lead students to                     |                                   |   |
| recognize important mathematical ideas that were initially presented in                  |                                   |   |
| the <b>Try It</b> problem. The teacher should use:                                       |                                   |   |
| <ul> <li>Language Routines - Collect &amp; Display and Compare &amp; Connect</li> </ul>  |                                   |   |
| <ul> <li>Teacher Moves - Turn &amp; Talk, Individual Think Time and Four Rs</li> </ul>   |                                   |   |
| ·  |                                   |   |
| Closing: (2-5 minutes daily)   |                                   |   |
| The closure should be directly related to the goal of the lesson. Formal                 |                                   |   |
|  |                                   | 1 |



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| closure to lessons may consist of synthesizing information learned during the<br>lesson that relates to the objective. For example, students could share with<br>the class something new that they learned that day (the question should be<br>detailed and related to the goal/objective), complete an exit ticket (related<br>to the goal/objective), reflect on what challenged them (related to the<br>goal/objective), etc.                                 |  |  |  |
| Whole Group Instruction  | Differentiation: Teacher Table   | Differentiation: Independent<br>Practice/Small Group Center  |  |
| Unit Resources   |  |  |  |
| <ul> <li>Suggested Pacing Guide</li> <li>Ready Unit Flow and Progression Video</li> <li>Ready Math Background: Models, Progressions, and Teaching Tips</li> <li>Ready Interactive Tutorials</li> <li>Ready Unit Self Reflection</li> <li>Ready Unit Review</li> <li>Ready Discourse Cards/Cube</li> <li>Ready Digital Math Tools</li> <li>Silent Hand Signals</li> <li>Georgia Frameworks (K-5)</li> <li>Howard County, MD: <ul> <li>Gr 3</li> </ul> </li> </ul> | <ul> <li>Scheduling Small Groups and<br/>Rotations</li> <li>CFAs</li> <li>RCM Fluency Practice Pages</li> <li>RCM Prerequisite Lessons</li> <li>RCM Tools for Instruction<br/>Lessons</li> <li>RCM Discourse Bookmarks</li> <li><u>K-5 Math Teaching Resources</u><br/>(no direct links to free<br/>documents!)</li> <li>Virtual Manipulatives:</li> </ul> | <ul> <li>Scheduling Small Groups and<br/>Rotations</li> <li>RCM Unit Game</li> <li>RCM Literacy Connections<br/>Activities</li> <li>RCM Discourse Bookmarks</li> <li><u>K-5 Math Teaching Resources</u><br/>(no direct links to free<br/>documents!)</li> <li>Howard County, MD:</li> <li><u>Gr 3</u></li> </ul> |  |



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|---|--|--|
| • Achieve the Core <u>Conerence Map</u>                                     | O <u>K6-IninkCentral</u>                             |  |
| Illustrative Mathematics  | counters, base ten blocks,                           |  |
| <ul> <li>Mindset Mathematics (Gr 3-6) by Jo Boaler</li> </ul>               | number line, 100s chart,                             |  |
| • <u>You Cubed</u>  | graphs, fractions,                                   |  |
| <ul> <li>Online Manipulatives in Mathigon</li> </ul>                        | measurement  |  |
| <ul> <li>PBS Learning Media</li> </ul>                                      | <ul> <li><u>TheMathLearningCenter</u> -</li> </ul>   |  |
| <ul> <li>San Francisco Unified School District (SFUSD)</li> </ul>           | ten frames, counters,                                |  |
| o <u>Gr 3</u>   | time, number line, math                              |  |
| • Three Act Tasks:  | rack, geoboards                                      |  |
| ○ Ms. Castillo's Math (K-5)   | o <u>Glencoe</u>                                     |  |
| • Graham Eletcher (K-6)   | WorkMats/Storyboards/M                               |  |
|   | anips.   |  |
| <ul> <li><u>Robert Kaplinsky</u> (К-б)</li> </ul>                           | <ul> <li><u>SplatSquare-InteractiveHu</u></li> </ul> |  |
| o <u>Jon Orr</u> (Gr 3-6)   | <u>ndredsChart</u>                                   |  |
| ○ Kyle Pearce (Gr 3-6)  | <ul> <li><u>EduPlace - NumberLine</u> -</li> </ul>   |  |
| <ul> <li>Sense Making Routines:</li> </ul>                                  | allows for multiple jumps                            |  |
| <ul> <li><u>Subitizing Slides</u> (Steve Wyborney)</li> </ul>               | to introduce open number                             |  |
| <ul> <li><u>Estimation 180</u> (Andrew Stadel)</li> </ul>                   | line concept, decomposing                            |  |
| <ul> <li><u>Esti-Mysteries</u> (Steve Wyborney)</li> </ul>                  | numbers  |  |
| <ul> <li><u>Even More Esti-Mysteries</u> (Steve Wyborney)</li> </ul>        | o Dreambox Teacher Tools                             |  |
| <ul> <li><u>Estimation Clipboard</u> (Steve Wyborney)</li> </ul>            |  |  |
| <ul> <li><u>Which One Doesn't Belong</u> (Christopher Danielson)</li> </ul> |  |  |



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| <ul> <li>Math Visuals (Berkley Everett)</li> <li>Would You Rather? (John Stevens)</li> <li>Numberless Word Problems (Brian Bushart)</li> <li>Number Talk Images (Tracey Zager &amp; Pierre Tranche)</li> <li>Daily Routines to Jumpstart Math Class (Curriculum Shared Drive)</li> <li>Clothesline Math (Dan Kaufmann)</li> <li>Math Spy (Dan Kaufmann)</li> <li>Same or Different (Brian Bushart)</li> <li>Same But Different (Sue Looney)</li> <li>Splat (Steve Wyborney)</li> </ul> |   |   |
|--|---|---|
| • <u>Open Middle</u> (Robert Kaplinsky)  |   |   |
| ○ <u>Get to Math K-5</u>   |   |   |
| <ul> <li><u>Number Talks K-5</u> (Kristen Northrop)</li> </ul>   |   |   |
| ○ <u>Visual Patterns</u>   |   |   |
| Whole Group Instruction  | Differentiation: Teacher Table  | Differentiation: Independent<br>Practice/Small Group Center |
| Assessments  |   |   |
| <ul> <li>Ready Unit Assessment</li> <li>Ready Lesson Quizzes</li> </ul>  | <ul> <li>Daily log of small group<br/>instruction</li> <li>Anecdotal Notes</li> </ul> | Examples of accountability measures: Recording sheets,      |



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| <ul> <li>Ready - Math In Action</li> <li>CFAs</li> <li>Exit Tickets</li> </ul>   | <ul> <li>Grade Level Math Interview</li> <li>CFAs</li> <li>RCM Fluency Practice Pages</li> <li>RCM Prerequisite Lessons</li> <li>RCM Tools for Instruction<br/>Lessons</li> <li>Exit Tickets</li> <li>Achieve the Core <u>Coherence</u><br/><u>Map</u></li> <li>Illustrative Mathematics</li> </ul>                                   | Fluency Practice Pages, exit<br>tickets, rubrics, reflections, etc.  |  |
| Standards  |   |  |  |
| <ul> <li>3.MD.A.1 Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.</li> <li>3.MD.A.2 Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (I).<sup>6</sup> Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.</li> </ul> | In addition to Whole Group Stan<br>on grade level fluency standards<br>below:<br>**Unit 5 Center Focuses:<br>Foundational Fraction Skill Skip-<br>fractional amounts (e.g., skip-cou<br>skip-count by ¼ ).<br>3.OA.C.7 Fluently multiply and d<br>such as the relationship betweer<br>knowing that 8 × 5 = 40, one kno<br>operations. | dards, you may choose to focus<br>or other priority standards listed<br>count by unit fractions and other<br>unt by $\frac{1}{3}$ , skip-count by $\frac{1}{2}$ ,<br>ivide within 100, using strategies<br>in multiplication and division (e.g.,<br>two 40 ÷ 5 = 8) or properties of |  |



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**3.NBT.A.2** Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction. **3.OA.D.8** Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

#### Unit 5 Math Pacing Guide

| Topic: Time                      |   |   |  |  |
|----------------------------------|---|---|--|--|
| Student Learning<br>Standard(s): | 3.MD.A.1  | Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram. |  |  |
| Math Practices:                  | <ul> <li>MP.1 Make sens</li> <li>MP.3 Construct</li> <li>MP.5 Use appro</li> <li>MP.7 Look for a</li> </ul> | se of the problem and persevere in solving them.<br>viable arguments and critique the reasoning of others.<br>opriate tools strategically.<br>nd make use of structure.   |  | <ul><li>P.2 Reason abstractly and quantitatively.</li><li>P.4 Model with Mathematics.</li><li>P.6 Attend to precision.</li></ul> |
| <b>Days</b> : 5<br>4/7 - 4/11    |   | Focus: Major Content  |  | Benchmarked Standard: N<br>Fluency Standard: N   |



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|                        |  | Critical Knowledge & Skills  |   |   |
|------------------------|--|--|---|---|
| Objective:             | We are learning<br>Use an and<br>Relate tim<br>Express tim<br>Understan<br>Measure t<br>Solve word | to:<br>nalog clock to tell and write time to the neare<br>ne on analog and digital clocks (Sessions 2 &<br>me as the number of minutes before the hou<br>nd the difference between am and pm (Sessi<br>time intervals in minutes using clock models<br>rd problems involving addition or subtraction | est minute (Sessior<br>5)<br>ur (Session 2 & 5)<br>on 2)<br>and number lines<br>n of time intervals i | n 1)<br>(Sessions 3, 4, 5)<br>in minutes (Sessions 3, 4, 5) |
| Essential Question(s): | How does what ye   | ou're measuring determine how you measur   | re it?  |   |

| Core Resources  |                              |  |  |
|---|------------------------------|--|--|
| Core Whole Group Resources  | Core Formative Assessment    |  |  |
| Ready Classroom Math Lessons<br>Lesson 27<br>5 Sessions<br>*Lesson material per student: Activity Sheet: Clock Face | -RCM Lesson Quizzes<br>-CFAs |  |  |
| Additional Leveled Resources  |                              |  |  |



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| Activities and Additional Resources<br>for Whole Group  | Differentiated Independent Activities/Center Ideas   |  | Teacher Table Differentiated Resources   |
|---|--|--|--|
| -Anchor Chart Links <u>3MDA1</u><br>-Number Sense Lessons/Resources<br>-Interactive Tools<br>- <u>3.MD.A.1 Dajuana's Homework</u><br>Brainpop Videos:<br><u>Time to the Hour</u><br><u>Time to the Hour</u><br><u>Time to the Minute</u><br><u>Time to the Minute</u><br><u>Time To the Quarter and Half Hour</u><br><u>Elapsed Time</u><br>LearnZillion: <u>3.MD.1</u><br>- <u>3 Act: All Aboard by Graham Fletcher</u><br><u>-Online Manipulatives in Mathigon</u><br>-Grade 3 NJSLA Reasoning/Modeling<br>Problems Slide #18 | <ul> <li>-iReady Individual Path</li> <li>-iReady Teacher Assigned Lessons</li> <li>-RCM Interactive Practice: NAME</li> <li>-RCM Center Activities</li> <li>-RCM Enrichment Activities</li> <li>-3.MD.A.1 Dajuana's Homework</li> <li>-Inside Mathematics</li> <li>-Fact Practice for Speed and Accuracy: Xtra Math</li> <li>-Fact Practice for Flexibility: Splash Learn</li> <li>-K-5 Math Teaching Resources</li> <li>3.MD.1 Word Problems: Time Intervals Task Cards</li> </ul> |  | -RCM Prerequisite Lessons<br>-RCM Tools for Instruction<br>-Brainpop Videos:<br><u>Time to the Hour</u><br><u>Time to the Minute</u><br><u>Time To the Quarter and Half Hour</u><br><u>Elapsed Time</u><br>- <u>Inside Mathematics</u> |
| Vocabulary for  | Students   | м  | entor Text List  |
| AM hour (h) hour hand minute (min)  | minute hand PM   | nand PM<br>Rodeo Time by Stuart J. Murphy ( <u>YouTube Read Aloud</u> )<br>Time To by Bruce McMillan ( <u>YouTube Read Aloud</u> )<br>What Time is Grandma Coming? by Peter Seymour<br>Tell Time with Turtles by Melissa McDonnell |  |



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|                            | <i>Telling Time</i> by Jules Older ( <u>YouTube Read Aloud</u> )<br><i>A Minute is a Minute</i> by Barbara Neasi |

|   | Topic: Liquid Volume and Mass  |  |   |
|---|--|--|---|
| Student Learning<br>Standard(s):              | <b>3.MD.A.2</b> Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (I). <sup>6</sup> Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem. |  |   |
| Math Practices:                               | <ul> <li>MP.1 Make sense of the problem and persevere in solving them.</li> <li>MP.3 Construct viable arguments and critique the reasoning of others.</li> <li>MP.5 Use appropriate tools strategically.</li> <li>MP.8 Look for and express regularity in repeated reasoning.</li> <li>MP.4 M</li> </ul>   |  | ΛΡ.2 Reason abstractly and quantitatively. ΛΡ.4 Model with Mathematics. ΛΡ.6 Attend to precision. |
| <b>Days</b> : 7<br>Lesson 28: 4/14 - 4/17 *sl | Focus: Major Content<br>kip session 4  |  | Benchmarked Standard: N<br>Fluency Standard:N   |



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| Lesson 29: 4/28 - 4/30 *s<br>Additional Practice & Quiz bo | kip session 4<br>oth lessons: 4/30  |  |   |
|--|---|--|---|
|  |   | Critical Knowledge & Skills  |   |
| Objective:   | We are learning to<br>Identify ite<br>Understan<br>Use unit si<br>Solve one-<br>Understan<br>Identify ite<br>Understan<br>Use unit si<br>Solve one- | b:<br>ms that can be measured in liquid volume units. (L28, Se<br>d the relative size of 1 liter. (L28, Sessions 1 & 2)<br>the to estimate liquid volume (capacity)<br>step word problems involving liquid volume (capacity). (<br>d that one way objects can be measured is by how heave<br>ms that can be measured in mass units. (L29, Sessions 1<br>d the relative masses of gram and kilogram. (L29, Session<br>te to estimate mass.<br>step word problems involving mass. (L29, Sessions 3 & 4 | ession 1)<br>L28, Sessions 3 & 4)<br>y or light they are.(L29, Sessions 1 & 2)<br>. & 2)<br>ns 1 & 2) |
| Essential Question(s):                                     | What makes an esti argument?  | mate reasonable? How are showing and explaining different?   | P How do you develop a convincing   |

| Core Resources             |                           |
|----------------------------|---------------------------|
| Core Whole Group Resources | Core Formative Assessment |



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|---|--|------------------------------|---|
| Ready Classroom Math Lessons<br>Lesson 28 (*Skip Session 4)<br>4 Sessions<br>*Lesson material for display: 5-liter contain<br>Lesson 29 (*Skip Session 4)<br>4 sessions<br>*Lesson materials per student: base-ten blo<br>15 ones units)  | er holding 1 liter of water<br>ocks (5 hundreds flats, 10 tens rods,   | -RCM Lesson Quizzes<br>-CFAs |   |
|   | Additional Leve  | eled Resources               |   |
| Activities and Additional Resources<br>for Whole Group  | Differentiated Independen  | t Activities/Center Ideas    | Teacher Table Differentiated Resources  |
| <ul> <li>-Anchor Chart Links <u>3.MD.2</u></li> <li>-Number Sense Lessons/Resources</li> <li>-Interactive Tools</li> <li>-<u>3.MD.A.2 How Heavy?</u></li> <li>-LearnZillion Resources <u>3.MD.2</u></li> <li>-<u>3 Act: The Water Boy by Graham Fletcher</u></li> <li>-<u>3 Act: The Orange by Graham Fletcher</u></li> <li>-<u>Would You Rather Lemonade Activity by</u></li> <li>John Stevens</li> <li>-Online Manipulatives in Mathigon</li> </ul> | <ul> <li>-iReady Individual Path</li> <li>-iReady Teacher Assigned Lessons</li> <li>-RCM Interactive Practice: NAME</li> <li>-RCM Center Activities</li> <li>-RCM Enrichment Activities</li> <li>-<u>3.MD.A.2 How Heavy?</u></li> <li>-<u>Inside Mathematics</u></li> <li>-Fact Practice for Speed and Accuracy: <u>Xtra Math</u></li> <li>-Fact Practice for Flexibility: <u>Splash Learn</u></li> <li>-Would You Rather Lemonade Activity by John Stevens</li> </ul> |                              | -RCM Prerequisite Lessons<br>-RCM Tools for Instruction<br>- <u>3.MD.A.2 How Heavy?</u><br>-LearnZillion Resources <u>3.MD.2</u><br>- <u>Inside Mathematics</u> |
| Vocabulary for  | Students   | м                            | entor Text List   |



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| Super Sand Castle Saturday by Stuart J. Murphy (YouTube Read Aloud) |
|---|
|---|

| Topic: Unit Review and Unit Assessment |  |  |
|--|--|--|
| <b>Days</b> : 3                        | Review Dates: 5/1<br>Unit Assessment Date: 5/2 |  |
| Scoring Submission in LinkIt:          | Data Review Date:                              |  |

\*Math In Action Lessons can be completed if time allows within the unit. They may also be used for differentiation for G&T students.

| Topic: Applying Our Knowledge |          |  |
|-------------------------------|----------|--|
| Student Learning              | 3.MD.A.1 | Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems |



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| Standard(s):               |  | involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a |

|                        | number line diagram.   |  |  |
|------------------------|--|--|--|
| Math Practices:        | <ul> <li>MP.1 Make sense of the problem and persevere in solving them.</li> <li>MP.3 Construct viable arguments and critique the reasoning of others.</li> <li>MP.5 Use appropriate tools strategically.</li> <li>MP.7 Look for and make use of structure.</li> <li>MP.7 Look for and make use of structure.</li> <li>MP.8 Look for an express regularity in repeated reasoning</li> </ul> |  |  |
| <b>Days</b> : 0        | Focus:MajorContentBenchmarked Standard:NFluency Standard:N   |  |  |
|                        | Critical Knowledge & Skills  |  |  |
| Objective:             | We are learning to: apply our understanding of telling time to create a viewing schedule to watch multiple movies in a day   |  |  |
| Essential Question(s): | How does what you're measuring determine how you measure it?   |  |  |

| Core Resources             |                           |
|----------------------------|---------------------------|
| Core Whole Group Resources | Core Formative Assessment |

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|--|---|------------------------------|--|
| How Many Movies Can You See in One Day PBL by Robert Kaplinsky<br>https://robertkaplinsky.com/work/movies/   |   | -RCM Lesson Quizzes<br>-CFAs |  |
|  | Additional Leve   | eled Resources               |  |
| Activities and Additional Resources<br>for Whole Group   | Differentiated Independent Activities/Center Ideas  |                              | Teacher Table Differentiated Resources   |
| -Anchor Chart Links<br>-Number Sense Lessons/Resources<br>-Interactive Tools<br>- <u>Ready Classroom Math Lessons</u><br>Math In Action<br>- <u>Online Manipulatives in Mathigon</u> | -iReady Individual Path<br>-iReady Teacher Assigned Lessons<br>-RCM Interactive Practice: NAME<br>-RCM Center Activities<br>-RCM Enrichment Activities<br>-Inside Mathematics<br>-Fact Practice for Speed and Accuracy: <u>Xtra Math</u><br>-Fact Practice for Flexibility: <u>Splash Learn</u> |                              | -RCM Prerequisite Lessons<br>-RCM Tools for Instruction<br>- <u>Inside Mathematics</u> |
| Vocabulary for Students  |   | M                            | entor Text List  |
| AM hour (h) hour hand minute (min) minute hand PM  |   |                              |  |

| Computer Science (8.1) and Design Thinking (8.2)                          |   |
|---|---|
| 8.1.5.CS.3: Identify potential solutions for simple hardware and software | 8.2.5.ITH.1: Explain how societal needs and wants influence the |



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| <ul> <li>problems using common troubleshooting strategies.</li> <li>8.1.5.NI.1: Develop models that successfully transmit and receive information using both wired and wireless methods</li> <li>8.1.5.NI.2: Describe physical and digital security measures for protecting sensitive personal information.</li> <li>8.1.5.IC.1: Identify computing technologies that have impacted how individuals live and work and describe the factors that influenced the changes.</li> <li>8.1.5.IC.2: Identify possible ways to improve the accessibility and usability of computing technologies to address the diverse needs and wants of users.</li> <li>8.1.5.DA.1: Collect, organize, and display data in order to highlight relationships or support a claim.</li> <li>8.1.5.AP.4: Break down problems into smaller, manageable sub-problems to facilitate program development.</li> </ul> | <ul> <li>development and function of a product and a system.</li> <li>8.2.5.ITH.2: Evaluate how well a new tool has met its intended purpose<br/>and identify any shortcomings it might have.</li> <li>8.2.5.ITH.4: Describe a technology/tool that has made the way people<br/>live easier or has led to a new business or career.</li> <li>8.2.5.NT.1: Troubleshoot a product that has stopped working and<br/>brainstorm ideas to correct the problem.</li> <li>8.2.5.NT.2: Identify new technologies resulting from the demands, values,<br/>and interests of individuals, businesses, industries, and societies.</li> <li>8.2.5.ETW.1: Describe how resources such as material, energy,<br/>information, time, tools, people, and capital are used in products or<br/>systems.</li> <li>8.2.5.ETW.2: Describe ways that various technologies are used to reduce<br/>improper use of resources.</li> <li>8.2.5.ETW.3: Explain why human-designed systems, products, and<br/>environments need to be constantly monitored, maintained, and<br/>improved.</li> <li>8.2.5.EC.1: Analyze how technology has contributed to or reduced<br/>inequities in local and global communities and determine its short- and<br/>long-term effects.</li> </ul> |
|---|---|
|---|---|

| Preparation for College, Careers, and Beyond                      |  |  |
|---|--|--|
| Career Ready Practices  | Personal Financial Literacy (9.1), Career Awareness, Exploration, and                |  |
|   | Preparation (9.2), Life Literacies and Key Skills (9.4)                              |  |
| CRP1. Act as a responsible and contributing citizen and employee. | 9.2.5.CAP.1: Evaluate personal likes and dislikes and identify careers that might be |  |
| CRP2. Apply appropriate academic and technical skills.            | suited to personal likes.  |  |



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| <ul> <li>CRP3. Attend to personal health and financial well-being.</li> <li>CRP4. Communicate clearly and effectively and with reason.</li> <li>CRP5. Consider the environmental, social and economic impacts of decisions.</li> <li>CRP6. Demonstrate creativity and innovation.</li> <li>CRP7. Employ valid and reliable research strategies.</li> <li>CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.</li> <li>CRP9. Model integrity, ethical leadership and effective management.</li> <li>CRP10. Plan education and career paths aligned to personal goals.</li> <li>CRP11. Use technology to enhance productivity.</li> <li>CRP12. Work productively in teams while using cultural global competence.</li> </ul> | <ul> <li>9.2.5.CAP.2: Identify how you might like to earn an income.</li> <li>9.2.5.CAP.3: Identify qualifications needed to pursue traditional and non-traditional careers and occupations.</li> <li>9.2.5.CAP.4: Explain the reasons why some jobs and careers require specific training, skills, and certification (e.g., life guards, child care, medicine, education) and examples of these requirements</li> <li>9.2.5.CAP.5: Identify various employee benefits, including income, medical, vacation time, and lifestyle benefits provided by different types of jobs and careers.</li> <li>9.2.5.CAP.6: Compare the characteristics of a successful entrepreneur with the traits of successful employees.</li> <li>9.2.5.CAP.7: Identify factors to consider before starting a business.</li> <li>9.2.5.CAP.8: Identify risks that individuals and households face.</li> <li>9.2.5.CAP.9: Justify reasons to have insurance.</li> </ul> |  |
|   | Personal Financial Literacy (Standard 9.1)  |  |
|   | Strand A  | Income and Careers                                   |
|   | Strand B  | Money Management                                     |
|   | Strand C  | Credit and Debt Management                           |
|   | Strand D  | Planning, Saving, and Investing                      |
|   | Strand E  | Becoming a Critical Consumer                         |
|   | Strand F  | Civic and Financial Responsibility                   |
|   | Strand G  | Insuring and Protecting                              |
|   | Career Awareness, Exploration,  | and Preparation (Standard 9.2)                       |
|   | Strand A  | Career Awareness (by end of Grade 4)                 |
|   | Strand B  | Career Exploration (by end of Grade 8)               |
|   | Strand C  | Career Preparation (by end of Grade 12)              |



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| 2                             | Cross-Curricular Connections                                       |   |  |  |
|-------------------------------|--|---|--|--|
| Interdisciplinary Connections |  | Technology Integration and Literacy                                   |  |  |
| •                             | Literature connections (math mentor texts identified in "Resources | Online links and possible resources for the integration of technology |  |  |
|                               | and Activities")   | into lessons are embedded within the "Possible Resources and          |  |  |
| •                             | Math journals  | Activities" column for each Topic area.                               |  |  |
| •                             | Math word wall   |   |  |  |
| •                             | Literacy Connections & Activities Ready Classroom Math             |   |  |  |

| Possible Modifications and Accommodations           |                           |  |  |
|---|---------------------------|--|--|
| Special Education/504 Plans                         | At-Risk                   | Gifted   | English Language Learners                          |
| *All teachers of students with special              | The possible list of      | *Teachers should select the appropriate modifications and/or                   | <ul> <li>Continue practicing vocabulary</li> </ul> |
| needs must review each student's IEP.               | modifications/accommod    | accommodations for Gifted and Talented according to the                        | <ul> <li>Demonstrate that vocabulary</li> </ul>    |
| Teachers must then select the appropriate           | ations identified for     | following suggestions.   | can have multiple meanings                         |
| modifications and/or accommodations                 | Special Education         |  | <ul> <li>Encourage bilingual supports</li> </ul>   |
| necessary to enable the student to                  | students can be utilized  | Differentiating instruction based on:  | among students                                     |
| appropriately progress in the general               | for At-Risk students.     | • <b>Content:</b> What is taught or the material used                          | <ul> <li>Provide visual cues, graphic</li> </ul>   |
| curriculum.   | Teachers should utilize   | • <b>Process:</b> <i>How</i> it is taught or support given or student grouping | representations, gestures, and                     |
|   | ongoing methods to        | or environment   | pictures   |
| Possible Modifications/Accommodations               | provide instruction,      | Product: What students produce   | <ul> <li>Rephrase math problems when</li> </ul>    |
| <ul> <li>Number line on desk</li> </ul>             | assess student needs, and |  | appropriate  |
| <ul> <li>Extra time on timed calculation</li> </ul> | utilize modifications     | To differentiate <b>content</b> consider:                                      | <ul> <li>Build knowledge from</li> </ul>           |
| assessments   | specific to the needs of  | • Using different resources that have less explicit information                | real-world examples                                |
| • Use of a calculator or chart of basic facts       | individual students.      | (e.g., tiering assignments - consider what would make the                      | <ul> <li>Provide manipulatives and</li> </ul>      |
| for computation                                     |                           | content more complex to digest for gifted students)                            | symbols  |



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| <ul> <li>Use of a graphic organizer to plan ways to solve math problems</li> <li>Use of concrete materials and objects (manipulatives)</li> <li>Opportunities for cooperative partner work</li> <li>Assign fewer problems at one time (e.g., assign only odds or evens)</li> <li>Basic computation – use counters</li> <li>Differentiated center-based small group instruction</li> <li>Fractions – use fraction blocks</li> <li>Provide a copy of mathematical equations, class notes, and examples for math notebooks</li> <li>Highlight or underline key words in word problems</li> <li>If a manipulative is used during instruction, allow its use on a test</li> <li>Place value – use place value blocks</li> <li>Provide several ways to solve a problem if possible</li> <li>Offer small and large graph paper options</li> <li>Provide visual aids and anchor charts</li> <li>Tiered lessons and assignments</li> </ul> | *Refer to the individual<br>student Math Plan for<br><b>specific interventions</b> . | <ul> <li>For Example: tiering problem solving scenarios making a gifted learner's scenario more complex</li> <li>For Example: gifted students could work on deriving the procedure for an abstract concept</li> <li>Organizing ideas through graphic organizers</li> <li>Using a learning contract (learning contracts are <i>individualized</i> and allow students to participate in designing their own learning which is motivating for gifted students)</li> <li>Using jigsaws</li> <li>Using orbital studies (differ from independent investigations and is meant as an extension of the topics covered in class into specific fields of study e.g., manufacturing)</li> <li>To differentiate the process consider:         <ul> <li>How students are grouped</li> <li>Tiering materials used (e.g., graphic organizers varying in complexity, types of questions asked - DOK level)</li> <li>For Example:</li></ul></li></ul> | <ul> <li>Have students estimate each other's heights</li> <li>Have students measure themselves and one another</li> <li>Have students relate an object they know with a unit of measure</li> <li>Encourage peer discussions regarding how students are thinking about math</li> <li>RCM Unit Connect Language Development to Mathematics</li> </ul> |



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|                                       | • Using a menu of options (each item is assigned a point value |  |
|---------------------------------------|--|--|
|                                       | and students select the route to take)                         |  |
|                                       | • Using open ended tasks (have more than one correct answer    |  |
|                                       | and/or more than one way to get to/explain an answer)          |  |
|                                       | o For Example: (Grade 2) Use the digits 0 to 9, at most one    |  |
|                                       | time each, to make a true statement.                           |  |
|                                       | ( <u>Open Middle Link</u> )                                    |  |
|                                       | o For Example: (Grade 3) Using the digits 1 to 9 exactly one   |  |
|                                       | time each, place a digit in each box to make the sum as        |  |
|                                       | close to 1000 as possible.                                     |  |
|                                       | (GeoGebra Link)  |  |
| Individualized Learning Opportunities |  |  |
|                                       |  |  |

Possible independent study and online learning opportunities are embedded within the "Possible Resources and Activities" column for each Topic area. iReady