## Unit 12 Reveal Grade 3

Content Area: Math
Course(s):
Time Period:
Length:
May
Status: Published

## Unit Overview

## UNIT 12 PLANNER <br> Measurement and Data

| PACING: 17 days |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LESSON |  | MATH OBJECTIVE | LANGUAGE OBJECTIVE | SOCLAL AND EMOTIONAL LEARNING OBJECTIVE | LESSON | KEY VOCABULARY |
| Unit Opener towitw Comparing Buildings Suderts explore diflerent wajg to mossure and compare the trights of buildinge. |  |  |  |  |  |  |
| 12.1 | Mesaure Liquid Volume | Students measure liquid volume in militters and lifers. | Students express a pecolse meazurement of lquid by uring flows and mittincters. | Students discuss and practice strategles for managing stressful shiuntions. | 12.1 | Math Tenms <br> liguid volume tifer (4) militter (m) |
|  |  |  |  |  |  |  |
|  | Estimate and Solve Probloms with Liquid Volume | Students estimate liquid volumes <br> in milliters and liters. <br> Students solve word problens <br> involing liquid volume. | Students use the word about to give an extimate of Iquid volume. | Students nccogniere persomal sticngths through thoughtful sel neflection. | 12.2 | estimate <br> liguid volume <br> lifer (L) <br> miltiter (mL) |
| 12.3 | Mcasure Mexs | Students measure mass in gams and kilograms | Stusents introduce a solution to a word problem uring so. | Students recogrize and work to understand the emotioes of others and practice empathefic resporses | 12.3 | balancescale gram (gi) <br> klogram \|kg| mass |
| 12.4 | Estimate and Solve Problicrs with Mres | Students estirate muss ingames and kilograms <br> Students scher word problems irvolling maxs | Students articulate a conclusion about the maxs of an object uring 30. | Students set a focuesed mathernatical goal and make a plon for achieving that goal. | 12.4 | gram (g) <br> klogram (kgl\| <br> maxs |
|  | Tell Nime to the Nearest Minute | Students tell and wete time to the nearest mirute. | Students tell time on an asalog dock uaing the terms belore and post. | Students collshorate with peers to complete a matheratical task and offer constructive feedthack to the mathernatical idcas posed by others. | 12.5 | analog clock digital dock |
| 12.6 | Solve Problome Involving Time | Students solve word problens irvolving time intacraks. | Students express times shown on an analog clock by using hours and exact minutes. | Students discurs how a nile or routine can help develop mathematical skelt and knowiedge and be resporaible cortribuloes. | 12.6 | number line |
|  | Understand Scaled Picture Graphs | Students acate scaled picture graphs. | Students describe the scale of a picture graph by using the verb represonts. | Students exchange idas for multhematical probion sobing with a pees, letering atterntively and providing thougttiul and constructive feedthack | 12.7 | key <br> picture graph scake |
|  | Understand Scaled Bar Graphs | Students acate scaled bar graphe. | Students express the values ueed to scale a graph by using the term cach. | Students set karning goals and irititite work on tasks to accompleh their goak | 12.8 | bar graph scale |
|  | Solve Probloms Involving Scaled Grapha | Students solve problions uring scaled grophs. | Students interppet dota on a bar graph by using the expression more than. | Students idenaly a problem, use crealivity to emocute peotien solving steps, and identify multiple solufions. | 12.9 | bar graph picture graph |
| $12 \cdot 10$ | Mcasure to Halves or Fourthe of an Inch | Students mexsure objects to the nearest hall and quarter inch. | Students articulate two possiblic measuremerta, one estimaled and one prectice, by using or. | Students idenaty personal traits that moke them good students, peers, and math leamers. | 12.10 | nuler |
| Math Probe Measuring Length Studerts find the length of a liee segnent and deternine whether statererts about the messuremert are true or fate. |  |  |  |  |  |  |
| $12 \cdot 11$ | Show Mcasurement Data on a Linc Plot | Students generate mexsuvement data and coatc line plots to depplay the data. | Students describe a tally on a line plot by uxing the expression the number of. | Students collaborate with peers and contribute to group effort to acticve a collective matheratical goal. | 12.11 | line plot |
| Unit Review Fluency Practice |  |  |  |  |  |  |
| Performance Task <br> Unit Assessment |  |  |  |  |  |  |

185A Unit 12 - Measurement and Data

## Essential Questions

## See Above

## Instructional Strategies and Learning Activities

LESSON $12-1$
Measure Liquid Volume

## Learning Targets

- I can measure liquid volume in millitiers and liters.
- I can explain how to measure liquid volume in milliters and liters.


## Standards o Mator isupporting © Additional

## Content

O 3.MD.A.2 Mcasure and estimate liquid volumes and masses of objects using standard units of grams (g). kilograms (kgl) and ilters (Il. Add, ssabtract, multiply, of divide to solve one step word probicms involving masses or volumes that are given in the same units, eg. by using drawings (such as a beaker with a measurement scalc) to represent the probiem.

Math Practices and Processes
MPP Use appropriate took strategically.

| Focus |  |  |
| :---: | :---: | :---: |
| Contert Objective <br> -Stusent mesure liquid vodume in millitters and lifers. | Language Objectives <br> - Shuderts cupess a precike mescurement of liquid by using fires and millimetorx <br> - Io culikate conversation, use MLRe: Decumaion Supports | sEL Objective <br> - Students dercuss and practice strategies for managing stressful stuations. |
| Coherence |  |  |
| Previous | Now | Next |
| - Students mexured the length of objects vesing units of inches. feet, conbimeters, and meters [Grade 2]. | - Shuderts apply an understinding of mexaurement to meazare liquid volume. | - Students estimate liguid volunes in milliters and lifers (Unit 12). <br> - Students solve word pooblens imolving liquid volumes and the four operations (Grade 4). |
| Rigor |  |  |
| Conceptual Understanding <br> - Students develop an understanding of how to measure liquid volume. | Procedural Swill 4 Fluency <br> - Shuderts build fluency with liquid volume by measuring liguid volume in millitiers and liters. | Application <br> - Students apply their understanding of liquid volume to compare messurements and sobve real world problems. <br> Application is not a fargeted element of nigor for this standord. |

## LESSON 12-2

Estimate and Solve Problems with Liquid Volume

| Leaming Targets | Vocal |
| :---: | :---: |
| - I can estimate liquid volume and solve peoblems involving liguid volume. <br> - I can explain how to estimate liquid volume and solve peobiens involving liquid volume. | Math Tern estimate liquid volum |
| Standards $\circ$ Major $\triangle$ supporting 0 Addetional | tiler (L) <br> millither (mL |
| Content <br> - 3.MD.A. 2 Mcasure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (1). Add, subtract, multiply, or divide to solve one step word problems involving masses or volumes that are given in the same units, eg., by using drawings (such as a beaker with a measurement scale) to repoesent the problem. | Mater <br> The materia of the lesso |
| Math Practices and Processes <br> MPP Model with mathematics. | - everyday <br> (1L, 500 . <br> -metric me <br> - water |



LESSON 12-3
Measure Mass

## Learning Targets

- I can measure mass in grams and kilograms.
- I can exptain how to measure mass in grams and kilograms.


## Standards • Mator isupporthng © Addlitional

Content
S.MD.A. 2 Measuve and estimate liquid volumes and masses of objects using standard units of grams (g). kilograms (kg), and liters (f). Add, subtract, multiply, or divide to solve one step word problers involving masses or volumes that are given in the same units, eg., by uxing drawings (such as a beaker with a measurement scalc) to repoesent the problem.
Math Practices and Processes
MPP Reason abstractly and quantitatively.

| Focus |  |  |
| :---: | :---: | :---: |
| Content Objective <br> -Students measue mass in grams and kilograms | Language Objectives <br> - Suderts introduce a solution to a woed problem uring sa. <br> - Io culikate conversation, use MLSS: Co Craft Questions. | SEL Objective <br> - Students recognixe and work to undestand the emotions of others and practice empathelic responses. |
| Coherence |  |  |
| Previous | Now | Next |
| - Students learned to measure lengths using metric unts (Grade 2] | - Shuderts use a balance scale to mexsure maxs in grame and klograms. | - Students use cetimation to solve problierses with mass (Unit 12 |
| - Stusents learned to solve probilents with Iquid volume in metric urits (Unit [7) | -Suderts ceplain how lo solve problens with maxs. | - Students rolate metric unils (Grade 4). |
| Rigor |  |  |
| Conceptual Understanding | Procedural Saill 4 Fluency | Application |
| - Students develop an understanding of mass $x$ a measurable property. | - Studerts use a halance scale and metric units in goms and kilograms to find the raxs of objects. | - Students apply what they have licarned about messuring mass in grams and klograns to solve neal world problems. |

## LESSON 12-4

Estimate and Solve Problems with Mass

## Learning Targets

- I can estimate mass and solve problems with mass.
- I can expliin how to estimate mass and solve problems with mass.


## Srandards o Malor $\Delta$ Supporting O Additional

## Content

O 3.MD.A. 2 Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (f. Add, sabtract, multiply, or dwide to solve one step word problems imvolving 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 and Processes
MPP Use appropriate took strategically.

| Focus |  |  |
| :---: | :---: | :---: |
| Content Objectives <br> - Students estimate mass in grams and hilograms. <br> - Students solve word problems Involving maxs. | Language Objectives <br> - Suderts articulate a conclusion shout the mass of an object ueing sa. <br> - Io muximize linguistic and cognilive mela awareness, use MLRZ: Collect and Desplay. | SEL Objective <br> - Students set a focused mathematical goal and make a plan for achieving that goal. |
| Coherence |  |  |
| Previous <br> - Students loamed to measure lengthe by ueing metric units [Grade 2 ] <br> - Students leamed to measure muss in grams and lilograms (Unil 14) | Now <br> - Shuderts use the muss of evcryday berms to estimate mass <br> - Shuderts write equations and use strategies to solve word probloms involving mass | Next <br> - Students use estimation to solve problems with time (Urit 12). <br> - Students rolate metric units (Grade 4). |
| Rigor |  |  |
| Conceptual Understanding <br> - Students develop an understanding of how to use the mass of everyday objects to estimate the muss of other objects. | Procedural Saill 8 Fluency <br> - Shuderts develop proficiency with extimating the maxs of objects in grams and kilograms. | Application <br> - Students apply what they have learned about estimating mass in grams and klograms to solve meal world probloms. |

## LESSON 12-5

## Tell Time to the Nearest Minute

## Learning Targets

- I can tell time to the neavest minute.
- I can exphain how to tell time to the nearest minute.


## Standards o mytor isupporting OAdditional

Content
O 3.MD.A. 1 Iell and write time to the nearest minute and measure time intervals in minutes.
Solve word problems irvolving addition and subtraction of time intervals in minutes, e.,. by representing the problem on a number line diagram.

Math Practices and Processes
UPP Model with mathematics.

## Focus

Content Objective

- Students lell and write time to
the nearest minute.


## Language Objectives

- Shuderts tell lime on an analog clock by using the terms belore and past.
- Io maximiac lingustic and
cognilivermela awareness, use MLis: Discurcion Supports.


## SEL Objective

- Students collshorate with peers
to complete a motheratical
task and offer constructive
task and offer constructive
fendtack to the mathematical
feedtack to the mathem

Coherence

| Previous | Now | Next |
| :---: | :---: | :---: |
| - Students identified and wrote time in hous and half hous (Grade 1) | - Shuderts fell and write the time to the cract minule shown on analog and digtal clocks. | - Students extend ther understanding of clock reading to solve problems irvolving time |
| - Students understood time to the nearest 5 minuter on analog and digital clocks (Grade 24 |  | interalk (Unit 14. |
|  |  | - Students convert units of time, build understanding of elapsed |
|  |  | lime, and solve wood problicms involving interves of time (Grade 4). |

## Rigor

Conceptual Understanding

- Students build on their
understanding of telling time by
cramining and interpreting the
time shown an analog and digital
docks to the nearest minute.


## Procedural Sidll 4 Fluency

- Suderts strengthen thel proficiency with dock reading by teling time to the mosesst mirute.


## Application

- Students apply their knowledge of telling time to the nearest minute to solve real world problerms.


## LESSON 12-6

Solve Problems Involving Time

## Learning Targets

- I can solve problems irvolving time intervals.
- I can exphin how to solve problems imvolving time intervalk.


## Standards $\circ$ Mutor 4 supporting 0 adetitiont

Content
© 3.MD.A. 1 Iell and write time to the nearest minute and measure time intervals in minutes.
Solve word probiems imvolving addition and subtraction of time intervals in minutes, e.g, by representing the problem on a number line diagram.

## Math Practices and Processes

MPP Ricasom abstractly and quantitatively.
MPP Model with mathematics.

| Focus |  |  |
| :---: | :---: | :---: |
| Content Objective <br> -Students solve word problerss irvelving time intervals. | Language Objectives <br> - Shuderts ceperes times shown on an anslog dock by uring hours and exact misuter. <br> - Io maximize Ingustic and cognilive awareness, use MLib: Thuce Reads. | se Objective <br> - Students dscruss how a nile or noutine can tclpdevelop maticratical skits and knowlodge and be responstele contributors. |
| Coherence |  |  |
| Previous <br> - Students cuplored tedling time to the nearest 5 minutes (Grade 27 <br> - Stusents practiced telling time to the nearest minute (Unit 174) | Now <br> - Suderts solve problicms Involing Iime intervak. | Next <br> - Students solve problims with Iime intervalk by uxing all four operations (Grade 4). |
| Rigor |  |  |
| Concesptual Understanding <br> - Stusent understand that time can be measured in interval. | Procedural Sxill 4 Fluency <br> - Shuderts build fluency in working with time intervals, clock reading, and number lines. | Application <br> - Students apply their understanding of telling time by solding contextual problicins using varous represertations. |

LESSON $12-7$
Understand Scaled Picture Graphs

## Learning Targets

- I can interpret data in a scaled picture graph.
- I can draw a scaled picture graph to repeesent a data set.


## 

Content
$\triangle$ 3.MD.B. 3 Draw a scaled picture graph and a scaled har graph to represent a data set with several categories. Solve one- and two step "how many more" and "how many less" problems using information presented in scaled bar graphs. For exomplc, draw a bar graph in which each square in the bar groph might reppesent 5 pets.
Math Practices and Processes
MPP Attend to prectision.

## Focus

| Content Objective | Langusge Objectives | SEL Objective |
| :---: | :---: | :---: |
| - Students create scaled picture graphs. | - Souderts describe the scale of a picture graph by uring the verb represents. <br> - lo support sense making, use MLR4: Information Gap. | - Students exchange ideas for mathematical problem solving wth a perr, listening attertively and providing thoughthla and construdive leedtark. |

## Coherence

| Colere <br> Previous | Now | Next |
| :--- | :--- | :--- |

LESSON 12-8
Understand Scaled Bar Craphs

## Learning Targets

- I can draw a scaled bar graph to represent a data set.
- I can describe how to draw a scaled bar graph to represent a data set.

Standarils ○ Mnjor $\Delta$ supporthng O Additional
Content
$\triangle$ 3.MD.B. 3 Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two step "how many more" and "how many less" problems using information presented in scaled bar graphs. For cxample, drow a scaled bar groph in which each square in the bar graph might represent 5 pets.

Math Practices and Processes
MPP Ricason abstractly and quantitatively.

## Focus

| Content Objective | Language Objectives | SEL Objective |
| :---: | :---: | :---: |
| - Students create scaled bar graphe. | - Shuderts express the valies used to scalc a graph by uring the tern cach. <br> - lo support sense making, use MLRA: Dicurzion Supports. | - Students set learning goals and initiate work on tasks to accomplsh their goaks. |

Coherence

| Previous | Now | Next |
| :---: | :---: | :---: |
| - Students acated and annlyzed har grapts with single unilt scales (Grade 7 | - Shuderts draw and describe scalod bar graphe. | - Students solve problers irnolving scaled bar grapts (Unit 127 |
| - Students created and annlyzed scaled pichure graphs (UnE124. |  | - Students desplay and interpret duta on line plots forade 4 . |

## Rigor

| Concestual Understanding | Procedural Swill 8 Fluency | Application |
| :---: | :---: | :---: |
| - Students understand how a scaled bar graph can represent a set of data. | - Suderts loarn how to draw scalod bar graphs and determine an appropritte | - Students apply their understanding of scaled bar graphst to mepresent |
| Conccoptual understanding is not a targated olemont af rigar for thes standave. | scale for their graphs. | neal world data. |

LESSON 12-9
Solve Problems Involving Scaled Craphs

## Learning Targets

- I can solve problems imvolving scaled graphs.
- I can explain how to solve problems involving scaled graphs.


## Standards o Mator $\Delta$ supporting oAdditional

## Content

$\triangle$ 3.MD.B. 3 Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two step "how many more" and "how many less" problems using information presented in scaled bar graphs. For exomple, draw a bar graph in which each squane in the bar graph might reperesent 5 pets
Math Practices and Processes
MPP Altend to precision.

| Focus |  |  |
| :---: | :---: | :---: |
| Content Objective <br> - Students solve problions uring scaled graphs. | Language Objectives <br> - Shuderts interpeet the dita on a har graph by uring the expression mare than. <br> - Io optimize output, use M.R3: Critigue, Correct, and Clarify. | SEL Objective <br> - Students idenaly a probliem, use creathily to crecute. problem solving stepr, and idertify multiple solutions. |
| Coherence |  |  |
| Previous <br> - Students solved problers irvolving picture graphs and bar graphs (Grade 4 <br> - Students creatod and anslyzed scaled picture graphs and scaled bar grapts (Unit 14. | Now <br> - Shuderts solve one and two step word problems involving scaled bar graphs and scaled picture graphe. | Next <br> - Students gencrate data by measuring length to halves and fourths of an inch (Unil 12 ). |
| Rigor |  |  |
| Conceptual Understanding <br> - Students use an understanding of scaled graphs to help make: sarse of the relationship between the values given in real world problerss. | Procedural Saill 8 Fluency <br> - Shuderts build fluency in solving one and two step woed problens involving scaled graphe. <br> Procedural skill and fluency is not a targeted element of rigor for this standord. | Application <br> - Students apply ther knowledge of interproting dała sets using picture graphs and scaled bar graphs to solve one- and two stiep real world problicrs. |

LESSON $12-10$
Measure to Halves or Fourths of an Inch

## Learning Targets

- I can measure to the neasest half and fourth of an inch.
- I can explain how to measure to the mearest hall and fourth of an inch.


## Standards o Mator isupporting OAdditionat

Content
$\triangle$ 3.MD.B.4 Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units - whole rumbers, halves, or quarters.

Math Practices and Processes
MPP Attend to precision.


## Rigor

| Conceptual Understanding | Procedural Skill 8 Fluency | Application |
| :---: | :---: | :---: |
| - Students devclop an understanding of longth in fractions of a unit by rolating it to their understanding of fractions on a number line. | - Shuderts use a nuler to find the tick mak for a half or fourth of an inch that is closest to the end of an object. | - Students messure meal world objects to the nearest half or fourth of an inch. <br> Application is not a fargeted element of ingor for this stondard. |

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LESSON 12-11
Show Measurement Data on a Line Plot
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## Learning Targets

- I can generate and represent measurement data on a line plot.
- I can explain how to generate and represent measurement data on a line plot.


## Standards $\circ$ Mutbr $\triangle$ supporting 0 adtitional

Content
$\triangle$ 3.MD.B. 4 Generate messurement data by measuring lengths using rulers marked with talves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appeopriate units-whole numbers, halves, or quarters.

Math Practices and Processes
MPP Model with mathematics.

| Focus |  |  |
| :---: | :---: | :---: |
| Content Objective <br> - Students gencrate measurement diata and create line plots to dieplay the dita. | Language Objectives <br> - Shuderts describe a tally on a line plot by uring the expression the number of. <br> - lo muximize lingustic and cogritive awareness, use M.R6: Ihree Mesds. | SEL Objective <br> - Students collaborate with peers and contribute to group effort to achicve a colloctive matheratical goal. |
| Coherence |  |  |
| Previous | Now | Next |
| - Students used nulers to messure the length of objects to the nearest inch (Grade 4 <br> - Students used rulers to messure the length to the ncamest half and fourth of an inch (Untl 12 ) | - Suderts comple mexsurcmert data orto a line plot marked in halves or fourths of an inch. | - Students areate line plots involving fractions to cigtths and solve peobloms involving fractions (Grade 4). |

## Rigor

Conceptual Understanding

- Stusents otend thcir understanding of moxsurement by compling duta orto a line plot marked in hateres or fourths of an inch.

Procedural sailla fluency
-Shderts combinue to develop fiucncy with mescurcment to fractioes of an inch.

Application

- Students apply their understanding of mexsuremert to plot and aralyme real world dith.
Application is mot a fargeted element of rigor for thes standard.


## Integration of Career Readiness, Life Literacies and Key Skills

## PFL.9.1.2. FI. 1

## PFL.9.1.2.CR. 1

PFL.9.1.2.CR. 2
PFL.9.1.2.FP. 1
PFL.9.1.2.FP. 3

Differentiate the various forms of money and how they are used (e.g., coins, bills, checks, debit and credit cards).

Recognize ways to volunteer in the classroom, school and community.
List ways to give back, including making donations, volunteering, and starting a business.
Explain how emotions influence whether a person spends or saves.
Identify the factors that influence people to spend or save (e.g., commercials, family, culture, society).

PFL.9.1.2.PB. 1

PFL.9.1.2.PB. 2
TECH.9.4.2.CI. 1

TECH.9.4.2.CI. 2
TECH.9.4.2.CT. 2
TECH.9.4.2.CT. 3
TECH.9.4.2.DC. 3

TECH.9.4.2.DC. 6
TECH.9.4.2.DC. 7
TECH.9.4.2.TL. 2
TECH.9.4.2.TL. 5
TECH.9.4.2.TL. 6
TECH.9.4.2.TL. 7

Determine various ways to save and places in the local community that help people save and accumulate money over time.

Explain why an individual would choose to save money.
Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2).

Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).
Identify possible approaches and resources to execute a plan (e.g., 1.2.2.CR1b, 8.2.2.ED.3).
Use a variety of types of thinking to solve problems (e.g., inductive, deductive).
Explain how to be safe online and follow safe practices when using the internet (e.g., 8.1.2.NI.3, 8.1.2.NI.4).

Identify respectful and responsible ways to communicate in digital environments. Describe actions peers can take to positively impact climate change (e.g., 6.3.2.CivicsPD.1).

Create a document using a word processing application.
Describe the difference between real and virtual experiences.
Illustrate and communicate ideas and stories using multiple digital tools (e.g., SL.2.5.).
Describe the benefits of collaborating with others to complete digital tasks or develop digital artifacts (e.g., W.2.6., 8.2.2.ED.2).

## Technology and Design Integration

CS.K-2.8.1.2.AP. 4
CS.K-2.8.1.2.AP. 5
CS.K-2.8.1.2.CS. 1

CS.K-2.8.1.2.DA. 1
CS.K-2.8.1.2.DA. 3
CS.K-2.8.1.2.DA. 4
CS.K-2.8.2.2.ITH. 4

Break down a task into a sequence of steps.
Describe a program's sequence of events, goals, and expected outcomes.
Select and operate computing devices that perform a variety of tasks accurately and quickly based on user needs and preferences.
Collect and present data, including climate change data, in various visual formats. Identify and describe patterns in data visualizations.

Make predictions based on data using charts or graphs.
Identify how various tools reduce work and improve daily tasks.

## Interdisciplinary Connections

LA.L.3.1

LA.W.3.4

LA.RI.3.1

LA.RI.3.2

LA.RI.3.3

Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

With guidance and support from adults, produce writing in which the development and organization are appropriate to task and purpose. (Grade-specific expectations for writing types are defined in standards 1-3 above.)

Ask and answer questions, and make relevant connections to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.

Determine the main idea of a text; recount the key details and explain how they support the main idea.

Describe the relationship between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect.

LA.RI.3.4

LA.RI.3.5

LA.RI.3.6
LA.RI.3.8

LA.RI.3.9

LA.RI.3.10

LA.SL.3.1

Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 3 topic or subject area.

Use text features and search tools (e.g., key words, sidebars, hyperlinks) to locate information relevant to a given topic efficiently.

Distinguish their own point of view from that of the author of a text.
Describe the logical connection between particular sentences and paragraphs in a text (e.g., comparison, cause/effect, first/second/third in a sequence) to support specific points the author makes in a text.

Compare, contrast and reflect on (e.g., practical knowledge, historical/cultural context, and background knowledge) the most important points and key details presented in two texts on the same topic.

By the end of the year, read and comprehend literary nonfiction at grade level textcomplexity or above, with scaffolding as needed.
Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.

## Differentiation

- Understand that gifted students, just like all students, come to school to learn and be challenged.
- Pre-assess your students. Find out their areas of strength as well as those areas you may need to address before students move on.
- Consider grouping gifted students together for at least part of the school day.
- Plan for differentiation. Consider pre-assessments, extension activities, and compacting the curriculum.
- Use phrases like "You've shown you don't need more practice" or "You need more practice" instead of words like "qualify" or "eligible" when referring to extension work.
- Encourage high-ability students to take on challenges. Because they're often used to getting good grades, gifted students may be risk averse.


## - Definitions of Differentiation Components:

- Content - the specific information that is to be taught in the lesson/unit/course of instruction.
- Process - how the student will acquire the content information.
- Product - how the student will demonstrate understanding of the content.
- Learning Environment - the environment where learning is taking place including physical location and/or student grouping


## Differentiation occurring in this unit:

## Exit Ticket: Use Data <br> to Inform Differentiation

## Modifications and Accommodations used in this unit:

## Benchmark Assessments

Benchmark Assessments are given periodically (e.g., at the end of every quarter or as frequently as once per month) throughout a school year to establish baseline achievement data and measure progress toward a standard or set of academic standards and goals.

Schoolwide Benchmark assessments:
Aimsweb benchmarks 3X a year
Linkit Benchmarks 3X a year
DRA

## Additional Benchmarks used in this unit:

Reveal Unit assessments

## Formative Assessments

Assessment allows both instructor and student to monitor progress towards achieving learning objectives, and can be approached in a variety of ways. Formative assessment refers to tools that identify misconceptions, struggles, and learning gaps along the way and assess how to close those gaps. It includes effective tools for helping to shape learning, and can even bolster students' abilities to take ownership of their learning when they understand that the goal is to improve learning, not apply final marks (Trumbull and Lash, 2013). It can include students assessing themselves, peers, or even the instructor, through writing, quizzes, conversation, and more. In short, formative assessment occurs throughout a class or course, and seeks to improve student achievement of learning objectives through approaches that can support specific student needs (Theal and Franklin, 2010, p. 151).

## Formative Assessments used in this unit:

Teacher observation
Checklists
Questioning and Discussion

## Summative Assessments

summative assessments evaluate student learning, knowledge, proficiency, or success at the conclusion of an instructional period, like a unit, course, or program. Summative assessments are almost always formally graded and often heavily weighted (though they do not need to be). Summative assessment can be used to great effect in conjunction and alignment with formative assessment, and instructors can consider a variety of ways to combine these approaches.

## Summative assessments for this unit:

## End of Unit assessments

## Instructional Materials

## See above

## Standards

MA.3.MD.A. 1

MA.3.MD.A. 2

MA.3.MD.B. 3

MA.3.MD.B. 4

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.

Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (I). 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.

Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs.

Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units- whole numbers, halves, or quarters.

