Curriculum Map

Course Title: Math   **Grade:** 5th

Unit (Name/Number): Measurement, Data and Probability	**Pacing:** Refer to RCC Pacing Guide (Unit 4 by end of March)

Essential Question(s): How does volume relate to multiplication and division? How do you convert measurement units within a given measurement system? How do we represent and interpret data?

Content/Key Concepts (Eligible Content)	Standards	Key Vocabulary	Learning Activities/Resources	Evidence of Learning (Assessments; Performance Tasks)
SOLVE PROBLEMS USING CONVERSIONS WITHIN A GIVEN MEASUREMENT SYSTEM. **M05.D-M.1.1.1 Convert between different-sized measurement units within a given measurement system. A table of equivalencies will be provided.** Example: Convert 5 cm to meters.	**Common Core** 5.MD.1 **PA Core Standards** CC.2.4.5.A.1	● convert ● unit ● capacity ● weight ● mass ● metric system ● gram ● meter ● liter ● kilo- ● centi- ● milli- ● customary system ● ounce ● pound ● ton ● inch ● foot ● yard ● mile ● fluid ounce ● cup ● pint ● quart ● gallon	Lesson 21: Convert Measurement Units (**M**) Lesson 22: Solve Word Problems Involving Conversions (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher discretion	**Assessment Options:** RCC Quizzes RCC Mid-Unit Assessment (after Lesson 23) RCC Interim Assessment SAS Assessment Builder **Required Assessment:** RCC Unit 4 Assessment **Extension Activity:** RCC Math in Action **Math Practice Standards** **Convert Measurement Units**-2, 3, 4, 7, 8 **Solve Word Problems Involving Conversions**-1, 2, 4, 5, 7 **Make Line Plots and Interpret Data**-1, 2, 3, 4, 5, 6, 7 ,8 **Understand Volume**-1, 2, 4, 5, 6, 7, 8 **Find Volume Using Unit Cubes**-1, 2, 3, 4, 5, 6, 7, 8

REPRESENT AND INTERPRET DATA USING APPROPRIATE SCALE. **M05.D-M.2.1.1** Solve problems involving computation of fractions by using information presented in line plots. **M05.D-M.2.1.2** Display and interpret data shown in tallies, tables, charts, pictographs, bar graphs, and line graphs, and use a title, appropriate scale, and labels. A grid will be provided to display data on bar graphs or line graphs.	**Common Core** 5.MD.2, 5.G.2 **PA Core Standards** CC.2.4.5.A.4, CC.2.3.5.A.1	● distribution ● line plot ● scale ● data	Lesson 23: Make Line Plots and Interpret Data (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher discretion Supplemental graphing activities including interpretations of tallies, tables, charts, pictographs, bar graphs, and line graphs Sample Assessment Questions SAS Materials/Resources Calculator use at teacher discretion	**Find Volume Using Formulas**-1, 2, 3, 4, 5, 6, 7, 8 **Find Volume of Composite Figures**-1, 2, 4, 5, 6, 7, 8
APPLY CONCEPTS OF VOLUME TO SOLVE PROBLEMS AND RELATE VOLUME TO MULTIPLICATION AND TO ADDITION. **M05.D-M.3.1.1** Apply the formulas V = l × w × h and V = B × h for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real-world and mathematical problems. Formulas will be provided. **M05.D-M.3.1.2** Find volumes of solid figures composed of two non-overlapping right rectangular prisms.	**Common Core** 5.MD.3, 5.MD.3a, 5.MD.3b, 5.MD.4, 5.MD.5, 5.MD.5a, 5.MD.5b, 5.MD.5c **PA Core Standards** CC.2.4.5.A.5	● plane figure ● solid figure ● volume ● cubic unit ● rectangular prism ● area ● formula ● square unit	Lesson 24: Understand Volume (**M**) Lesson 25: Find Volume Using Unit Cubes (**M**) Lesson 26: Find Volume Using Formulas (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher discretion Lesson 27: Find Volume of Composite Figures (**M**) Sample Assessment Questions SAS Materials/Resources Calculator use at teacher discretion	

M = lessons that have a **major emphasis** in the Common Core Standards

S/A = lessons that have **supporting/additional** emphasis in the Common Core Standards

Math Practice Standards:

1- Make sense of problems and persevere in solving them

2- Reason abstractly and quantitatively

3- Construct viable arguments and critique the reasoning of others

4- Model with mathematics

5- Use appropriate tools strategically

6- Attend to precision

7- Look for and make use of structure

8- Look for and express regularity in repeated reasoning