## Grade 4 Mathematics - Unit 5: Measurement <br> Phoenixville Area School District

## Stage 1 Desired Results

| PA Core Standards: CC.2.4.4.A. 1 Solve problems involving measurement and conversions from a larger unit to a smaller unit | Transfer |  |
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|  | - Problem-solving: Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems <br> - Mathematical Vocabulary: Interpret mathematical vocabulary and apply proper terminology to engage in meaningful oral and written expression that communicates mathematical thinking, problem-solving methods, and rationale |  |
| PSSA Assessment Anchors: <br> M04.D-M.1.1 Solve problems involving length, weight (mass), liquid volume, time, area, and perimeter | Meaning |  |
|  | UNDERSTANDINGS <br> Students will understand that... <br> - Numerical quantities, unites, and measurements can be exchanged/converted using appropriate calculations | ESSENTIAL QUESTIONS <br> Students will keep considering... <br> - What is the correct operation for the task? <br> - How can different units within a given measurement system be used to represent the same quantity? |
|  | Knowledge and S | kills Acquisition |
|  | KNOWLEDGE | SKILLS |
|  | Students will know... <br> - Multiplication is used when converting from a larger unit to a smaller unit <br> - In the US we use the customary measurement system to measure <br> - Other parts of the world use a metric measurement system | Students will be skilled at... <br> - Expressing measurements in a larger unit in terms of a smaller unit <br> - Use the four operations to solve word problems involving distance, time, volume, mass and money to convert from a large unit to a smaller unit <br> - Use area and perimeter formulas (provided) |
|  | VOCABULARY <br> - Conversion <br> - Convert <br> - Metric | to solve real world word problems involving rectangles <br> - Find the missing side/length of a rectangle |


|  |  | - Customary <br> - Area <br> - Perimeter <br> - Identify time as the amo before or after the hour digit clocks | unt of minutes using analog and |
| :---: | :---: | :---: | :---: |
| Stage 2-Evidence |  |  |  |
| Code A/M/T | Evaluative Criteria | Assessment Evidence |  |
| A/M/T Acquisition $\begin{gathered}\text { Meaning } \\ \text { Making }\end{gathered}$ Transfer | What criteria will be used in each assessment to evaluate attainment of the desired results? | PERFORMANCE TASK(S) <br> Students will demonstrate understanding (meaning-making and transfer) through complex performance by... <br> Goal: <br> The goal is to create a detailed floor plan for your dream house. <br> Role: <br> You are looking to be hired as an architect for a new development being built in Phoenixville. <br> Audience: <br> Your target audience is Toll Brothers, a well-known builder. <br> Situation: <br> You are interviewing for a job as an architect for a high - end construction company in the area. You are to create a floor plan, of your dream home, to bring with to your interview. <br> Product/Performance and Purpose: <br> You need to create a labeled floor plan for your dream home. <br> Standards \& Criteria for Success: <br> The first phase of your project will be to create a plan drawing of your home. If you choose to have more than one floor, each should be drawn and labeled accordingly. It must include distances and measurements and should only include these types of shapes: <br> - Square <br> - Rectangle <br> - Irregular/complex figures (made of squares and rectangles) | Differentiation Considerations: <br> [Work on this section after completing Stages 1-2 of all units] |



|  |  | Hardwood flooring \$5 per square foot <br> - Furnish your home: You have a $\$ 10,000$ budget. What furniture would you choose for your kitchen, living room and bedroom? Don't forget that when homes are built everything needs to be purchased. You will need appliances as well as furniture! |  |
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| A/M/T <br> Acquisition <br> Meaning Making <br> Transfer | What criteria will be used in each assessment to evaluate attainment of the desired results? | OTHER EVIDENCE <br> Unit 5 Test See Assessment folder for Unit 5 Test | Differentiation Considerations: <br> [Work on this section after completing Stages 1-2 of all units] |

