

Grade 5 Mathematics – Unit 5: Unit Conversion

Phoenixville Area School District

Stage 1 Desired Results	
<p>PA Core Standards: <u>CC.2.4.5.A.1</u> - Solve problems using conversions within a given measurement system</p> <p>PSSA Assessment Anchors: <u>M05.D-M.1.1</u> - Solve problems using simple conversions (may include multistep, real-world problems).</p>	<p style="text-align: center;"><i>Transfer</i></p> <p>TRANSFER GOALS <i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> • <u>Number Sense</u>: Develop a sound foundation to demonstrate the value of numbers by describing their various representations, relationships, and patterns. • <u>Fluency</u>: Demonstrate automatic recall of addition, subtraction, multiplication and division facts. • <u>Problem-Solving</u>: Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems. • <u>Mathematical Vocabulary</u>: Interpret mathematical vocabulary and apply proper terminology to engage in meaningful oral and written expression that communicates mathematical thinking, problem-solving methods, and rationale.
<i>Meaning</i>	
<p>UNDERSTANDINGS <i>Students will understand that...</i></p> <ul style="list-style-type: none"> • Mathematics is used to make informed decisions about problems in everyday life. • Numerical quantities, units, and measurements can be exchanged/converted using appropriate calculations. • Mathematical operations can be modeled through a variety of representations. 	<p>ESSENTIAL QUESTIONS <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> • What is the correct operation for the task? • How can different units within a given measurement system be used to represent the same quantity? • Have I represented the relationships between the quantities appropriately?
<i>Knowledge and Skills Acquisition</i>	
<p>KNOWLEDGE <i>Students will know...</i></p> <ul style="list-style-type: none"> • Measurement units can be converted within a given measurement system. 	<p>SKILLS <i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> • Applying the rules of conversion for metric measurement to solve problems.

	<ul style="list-style-type: none"> • Larger masses, distances, amounts should be measured with larger units, and smaller masses, distances, amounts with smaller units. • Problems can be solved by converting units. <p>VOCABULARY</p> <ul style="list-style-type: none"> • Metric • Customary • Convert • Units 	<ul style="list-style-type: none"> • Applying the varied rules of conversion for customary measurement to solve problems. • Analyzing a table of equivalencies and applying the conversion rules to a given problem.
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Stage 2 – Evidence

Code A/M/T	Evaluative Criteria	Assessment Evidence	
A/M/T Acquisition Meaning Making Transfer	<i>What criteria will be used in each assessment to evaluate attainment of the desired results?</i>	<p>PERFORMANCE TASK(S) <i>Students will demonstrate understanding (meaning-making and transfer) through complex performance by...</i></p> <p>[Performance Assessment Title]</p> <ul style="list-style-type: none"> • <i>Goal:</i> Your task is to... • <i>Role/Audience:</i> You are a... • <i>Situation/Product:</i> You will... • <i>Success Criteria:</i> Your [product] must include... 	<p>Differentiation Considerations:</p> <p>[Work on this section after completing Stages 1-2 of all units]</p>
A/M/T Acquisition Meaning Making Transfer	<i>What criteria will be used in each assessment to evaluate attainment of the desired results?</i>	<p>OTHER EVIDENCE</p> <p>Metric Conversions Assessment – Teacher developed using Study Island Resources</p> <ul style="list-style-type: none"> • Multiple Choice <p>Canvas Metric Conversions Quiz – Shared to commons</p> <ul style="list-style-type: none"> • Search “5th grade Metric Conversions Quiz 2020-2021” 	<p>Differentiation Considerations:</p> <p>[Work on this section after completing Stages 1-2 of all units]</p>