

Berlin Brothersvalley School District
Berlin High School
Math
1st Grade
1st Nine Weeks

Big Idea(s)	Concept(s)	Competencies	Essential Questions
<p>Mathematical relationships among numbers can be represented, compared, and communicated.</p> <p>Mathematical relationships can be represented as expressions, equations and inequalities in mathematical situations.</p> <p>Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools.</p>	<p>Students will know...</p> <ul style="list-style-type: none"> ● Numbers 1-20 ● Tally chart ● Addition and subtraction ● Strategies ● Length 	<p>Students will be able to...</p> <ul style="list-style-type: none"> ● Identify, write, locate on a number grid, compare, add and subtract number 1-20. ● Represent numbers, count numbers, compare numbers, and use the data to solve equations about the tally chart. ● Add and Subtract within 20 ● Apply various strategies to add and subtract within 20 ● Estimate and measuring various object with non standard units of measurements, 	<p>How is mathematics used to quantify, compare, represent, and model numbers?</p> <p>What does it mean to estimate or analyze numerical quantities?</p> <p>What makes a tool and/or strategy appropriate for a given task?</p>

<p style="text-align: center;"><u>Topics</u></p> <p>Count and Compare Numbers (1-20) Count forward and backwards Compare numbers One less, one more, bigger, smaller Counting strategies Grouping, estimating Ordering numbers (1-20)</p>	<p style="text-align: center;"><u>Approx # of weeks</u></p> <p style="text-align: center;">2 weeks</p>	<p style="text-align: center;"><u>PA Standards</u></p> <p style="text-align: center;">CC.2.1.1.B.1</p> <p>Extend the counting sequence to read and write numerals to represent objects.</p> <p style="text-align: center;">CC.2.2.1.A.2</p> <p>Understand and apply properties of operations and the relationship between addition and subtraction.</p>	<p style="text-align: center;"><u>Assessment Anchors & Eligible Content</u></p> <p style="text-align: center;">NA</p>
<p style="text-align: center;"><u>Topics</u></p> <p>Data Tally chart Counting by 5s and 1s Adding and Subtraction within 20</p>	<p style="text-align: center;"><u>Approx # of weeks</u></p> <p style="text-align: center;">2 weeks</p>	<p style="text-align: center;"><u>PA Standards</u></p> <p style="text-align: center;">CC.2.2.1.A.1</p> <p>Represent and solve problems involving addition and subtraction within 20.</p> <p style="text-align: center;">CC.2.4.1.A.4</p> <p>Represent and interpret data using tables/charts.</p>	<p style="text-align: center;"><u>Assessment Anchors & Eligible Content</u></p> <p style="text-align: center;">NA</p>

<p style="text-align: center;"><u>Topics</u></p> <p>Decomposing numbers within 10 Pairs that add within 10 Subtraction with pairs of numbers that add to 10 Identifying combinations of ten Counting on to add Unit boxes to label objects as they count Subtraction and addition strategies Change to more and change to less to solve number stories Number models (addition and subtraction) Finding unknown numbers</p>	<p style="text-align: center;"><u>Approx # of weeks</u></p> <p style="text-align: center;">3 weeks</p>	<p style="text-align: center;"><u>PA Standards</u></p> <p style="text-align: center;">CC.2.1.1.B.2 Use place-value concepts to represent amounts of tens and ones and to compare two digit numbers.</p> <p style="text-align: center;">CC.2.1.1.B.3 Use place-value concepts and properties of operations to add and subtract within 100.</p>	<p style="text-align: center;"><u>Assessment Anchors & Eligible Content</u></p> <p style="text-align: center;">NA</p>
<p style="text-align: center;"><u>Topics</u></p> <p>Length Ordering length Comparing lengths Revisiting addition and subtraction</p>	<p style="text-align: center;"><u>Approx # of weeks - % of time</u></p> <p style="text-align: center;">2 weeks</p>	<p style="text-align: center;"><u>PA Standards</u></p> <p style="text-align: center;">CC.2.4.1.A.1 Order lengths and measure them both indirectly and by repeating length units.</p> <p style="text-align: center;">CC.2.1.1.B.3 Use place-value concepts and properties of operations to add and subtract within 100.</p>	<p style="text-align: center;"><u>Assessment Anchors & Eligible Content</u></p> <p style="text-align: center;">NA</p>

Standards Legend: Essential Important Supplementary