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***MISSION***

***The Faculty and staff of Chadwick R-1 Schools in partnership with parents and the community, will establish high standards of learning and high expectations for achievement while providing comprehensive guidance for success****.*

*Subject: Algebra 1B*

*Grade Level: 9-12*

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| ***August/September/October:***  Reasoning with Equations ***10 Weeks*** |

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| **ESSENTIAL MEASURABLE LEARNING OBJECTIVES** | **CROSSWALK TO STANDARDS** |
| **GLEs/CLEs** | **PS****(Standards of Mathematical Practice)** | **CCSS** | **MATH** | **DOK****(per GLE/CLE)** |
| 1. Students will create equations and inequalities in one variable and use them to solve problems
 | A.2.A.A1 | 3.3  | A-CED.1 | MP3 | 3  |
| 1. Students will create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.
 | A.2.A.A1A.3.A.A1G.4.B.A1  | 3.3 1.6 3.3 | A-CED.2 | MP3MP8MP3 | 323 |
| 1. Students will represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context.
 | A.2.D.A1A.3.A.A1G.4.B.A1 | 1.6 1.7 1.8  | A-CED.3 | MP8MP3MP6MP7MP6 | 223 |
| 1. Students will rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations
 | A.2.B.A1 | 3.2  | A-CED.4 | MP1 | 2 |
| 1. Students will explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.
 | A.2.B.A1A.2.C.A1 | 3.23.2 | A-REI.1 | MP1MP1 | 2 1  |
| 1. Students will solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.
 | A.2.A.A1 | 3.3 | A-REI.3 | MP3 | 3 |



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| ***October:***  Solving Quadratic Equations ***2 Weeks*** |

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| ESSENTIAL MEASURABLE LEARNING OBJECTIVES  | CROSSWALK TO STANDARDS |
| GLEs/CLEs | PS | CCSS | MATH | DOK |
| 1. Students will solve problems that involve quadratic equations.
 | A.2.A.A1A.2.B.A1 | 3.33.2 | A-SSE.1A-SSE.2 | MP3MP1 | 32 |
| 1. Students will use properties of mathematics to alter the structure of an expression and equation.
 | A.2.A.A1A.2.B.A1 | 3.33.2 | A-SSE.1A-SSE.2 | MP3MP1 | 32 |
| 1. Students will determine the factors, x-intercepts, and zeros of a graph and use the Zero-Product Property to solve quadratic equations.
 | A.2.B.A1 | 3.2 | A-SSE.3aA-SSE.3bA-SSE.3c | MP3MP1 | 2 |

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| ***November/December/January:***  Solving Quadratic Equations ***15 Weeks*** |



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| ***February/March/April: Exponential Functions***  ***12 Weeks*** |

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| **ESSENTIAL MEASURABLE LEARNING OBJECTIVES**  | **CROSSWALK TO STANDARDS** |
| **GLEs/CLEs** | **PS** | **CCSS** | **MATH** | **DOK** |
| 1. **Students will recognize exponential functions represented numerically in tables, graphically, symbolically, or by verbal descriptions.**
 | **A.1.E.A1****A.4.A.A1****A.1.C.A1****G.4.B.A1****A.4.A.A1****G.4.B.A1****A.1.C.A1****A.1.D.A1** | **1.6****1.6****1.6****3.3****1.6****3.3****1.6****1.6****1.6** | **F-LE.1c****F-LE.3****F-IF.6****F-IF.7e****F-IF.9** | **MP8****MP8****MP8****MP3****MP8****MP3****MP8****MP8****MP8** | **2****3****3****3****3****3****2****3****2** |
| 1. **Students will solve exponential equations and systems of equations involving exponentials.**
 | **A.1.C.A1****A.2.D.A1****A.4.A.A1****G.4.B.A1****A.1.B.A1****A.1.C.A1****A.2.A.A1** | **1.6****1.6****1.6****3.3****1.6****1.6****3.3** | **A-REI.10****A-REI.11****F-LE.2** | **MP8****MP8****MP8****MP3****MP8****MP8****MP3** | **3****2****3****3****2****3****3** |
| 1. **Students will construct and interpret functions in terms of a context.**
 | **A.1.C.A1****A.1.D.A1****A.1.E.A1****A.4.A.A1****G.4.B.A1****A.1.B.A1****A.2.A.A1****A.1.E.A1****G.4.B.A1****A.4.A.A1** | **1.6****1.6****1.6****1.6****3.3****1.6****3.3****1.6****3.3****1.6** | **F-IF.4****F-BF.1a****F-BF.3** **F-LE.5** | **MP8****MP8****MP8****MP8****MP3****MP8****MP3****MP8****MP3****MP8** | **3****2****2****3****3****2****3****2****3****3** |



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| ***May:***  2nd Semester Completion ***2 Weeks*** |

These weeks are used to complete any objectives that have not been covered and to prepare for the semester finals.