

## Curriculum Mapping

School Illini Bluffs High School School Year 2009-2010

Teacher \_\_\_\_\_ Email Address \_\_\_\_\_

Course Algebra B Grade Level 10 Page \_\_\_\_\_

Month	ILS	Content	Skills	Assessments	Resources
<b>August</b>	6c4 8D 8A	1. Systems of Equations	<ol style="list-style-type: none"> <li>1. The student will be able to solve a linear system by graphing.</li> <li>2. The student will be able to solve a linear system by substitution</li> <li>3. The student will be able to solve a linear system by the addition and subtraction method.</li> </ol>	<ol style="list-style-type: none"> <li>1. Worksheets</li> <li>2. Daily quizzes</li> <li>3. Tests</li> <li>4. Classwork</li> </ol>	<ol style="list-style-type: none"> <li>1. Text</li> <li>2. Teacher Resource Guides</li> <li>3. Teacher generated worksheets, quizzes and tests</li> </ol>
<b>September</b>	6d3 6d4 8d3b 8d3c	<ol style="list-style-type: none"> <li>1. Systems of equations</li> <li>2. Exponent Rules</li> </ol>	<ol style="list-style-type: none"> <li>1. The students will be able to multiply monomials</li> <li>2. The students will be able to raise monomials to powers.</li> <li>3. The students will be able to divide monomials.</li> <li>4. The students will be able to multiply a monomial by a polynomial.</li> <li>5. The students will be able to multiply binomials.</li> <li>6. The students will be able to divide monomials.</li> <li>7. The students will be able to know when a linear system has no solution and infinitely many solutions</li> </ol>	<ol style="list-style-type: none"> <li>1. Book Assignments</li> <li>2. Worksheets</li> <li>3. Quizzes</li> <li>4. Tests</li> <li>5. Poster-making</li> </ol>	<ol style="list-style-type: none"> <li>1. Text</li> <li>2. Teacher Resource Guides</li> <li>3. Video</li> <li>4. Teacher generated worksheets, quizzes, and tests</li> </ol>
<b>October</b>	6a3 6A	<ol style="list-style-type: none"> <li>1. Zero and negative exponents</li> <li>2. Graphs of Exponential equations</li> <li>3. Scientific Notation</li> </ol>	<ol style="list-style-type: none"> <li>1. The students will be able to use zero and negative exponents.</li> <li>2. The student will be able to graph an exponential equation.</li> <li>3. The students will be able to</li> </ol>	<ol style="list-style-type: none"> <li>1. Book Assignments</li> <li>2. Worksheets</li> <li>3. Quizzes</li> <li>4. Tests</li> </ol>	<ol style="list-style-type: none"> <li>1. Textbook</li> <li>2. Teacher Resource books</li> <li>3. Teacher generates</li> </ol>

Month	ILS	Content	Skills	Assessments	Resources
		4. Division using exponents 5. Exponential growth and decay( if time)	change a number to scientific notation. 4. The student will be able to change a number from scientific notation to standard notation. 5. The student will be able to simplify problems that contain exponents. 6. (If TIME) The student will be able to solve real life problems using exponential growth and decay.		worsksheets, quizzes, tests
<b>November</b>	6b3c 9d	1. Square roots 2. Solving Quadratic equations using roots. 3. Simplifying radicals 4. Graphing Quadratic Functions.	1. The students will be able to simplify rational and irrational square roots. 2. The students will learn to rationalize the denominator of a radical. 3. The students will be able to solve quadratic equations by using square roots, and graphing.	1. Book Assignments 2. Worksheets 3. Quizzes 4. Tests 5. Poster-making	1. Text 2. Teacher Resource Guides 3. Teacher generated quizzes. worksheets and tests.
<b>December</b>	6b3c 9d	1. Solving quadratic equations by graphing 2. Solving quadratic equations by the quadratic formula.	1. The students will be able to solve quadratic equations by graphing and the quadratic formula.	1. Book Assignments 2. Worksheets 3. Quizzes 4. Tests	1. Text 2. Teacher Resource Guides 3. Teacher generaetd worksheets, quizzes and tests.
<b>January</b>	6b3b 8b4a 7a4b 8b4b 8d4 8d3b 7b4	1. Operations with polynomials. 2. Factoring.	1. The students will be able to add, subtract, and multiply polynomials. 2. The students will be able to apply the factoring methods of GCF, difference of squares, and trinomial factoring to solve problems. 3. The students will factor special products and cubic equations.	1. Book Assignments 2. Worksheets 3. Quizzes 4. Tests 5. Poster-making	1. Text 2. Teacher Resource Guides 3. Teacher generated materials.

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<b>February</b>	6c3a 6c3b 6d3 6d4	1. Continue Factoring. 2. Proportions 3. Direct and Indirect Variation.	1. The students will continue their study of factoring. 2. The students will be able to solve equations using proportions. 3. The students will be able to solve problems using direct and indirect variation.	1. Book Assignments 2. Worksheets 3. Quizzes 4. Tests 5. Poster-making	1. Text 2. Teacher Resource Guides
<b>March</b>	6A 8a4b 8b5	1. Rational expressions 2. Rational equations	1. The students will be able to simplify rational expressions that involve all operations 2. The students will be able to solve rational equations.	1. Book Assignments 2. Worksheets 3. Quizzes 4. Tests	1. Text 2. Teacher Resource Guides
<b>April</b>	6b3c 9d	1. Pythagorean Theorem 2. Square Roots 3. Solving Equations with square roots 4. Rational exponents	1. The students will be able to solve problems using the Pythagorean Theorem. 2. The students will recognize pythagorean triples. 3. The students will be able to simplify expressions using addition, subtraction, multiplication and division of radicals. 4. The students will be able to solve radical equations involving square roots. 5. The students will be able to Simplify expressions with rational exponents.	1. Book Assignments 2. Worksheets 3. Quizzes 4. Tests 5. Poster-making	1. Text 2. Teacher Resource Guides 3. Teacher generated materials.
<b>May</b>	6b3c 8c4a 8d4 8b5 8c5	1. Midpoint Formula 2. Distance Formula 3. Review of proportion 3. Trig Functions( if time)	1. The students will be able to apply proportional reasoning to solve real world problems. 2. The students will be able to find the sine, cosine, and tangent rations given a right triangle. 3. The students will be able to solve a triangle for its missing sides and angles using triangle trigonometry.	1. Book Assignments 2. Worksheets 3. Quizzes 4. Tests	1. Text 2. Teacher Resource Guides 3. Outdoor Activities

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			4. The students will be able to apply the distance formula and the midpoint formula to solve problems.		
June					