

Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
Algebra 2 *Chapter 10 Counting Methods and Probability	10-12	6 th	14 days
TEKS/Student Expectations		Examples/Specifications:	
<p>A.1 – The student will be able to have the basic understandings of numbers and operations, and will continue to build on this foundation as they expand their understanding through other mathematical experiences.</p> <p>A.2 – Students study algebraic concepts and the relationships among them to better understand the structure of algebra.</p> <p>A.4 - Students perceive the connections between algebra and geometry and use the tools of one to help solve problems in the other.</p> <p><i>The student uses properties and attributes of functions and applies functions to problem situations. Following are performance descriptions.</i></p> <p>2A.1.B – In solving problems, the student collects data and records results, organizes the data, makes scatterplots, fits the curves to the appropriate parent function, interprets the results, and proceeds to model, predict, and make decisions and critical judgments.</p>		<ul style="list-style-type: none"> ✓ Student will be able to apply the counting principle and permutations ✓ Student will be able to use combinations and the binomial theorem ✓ Student will be able to define and use probability ✓ Student will be able to find probabilities of independent and dependent events ✓ Student will be able to construct and interpret binomial distributions ✓ Student will be able to find probabilities of disjoint and overlapping events 	
G.5.C			

Process of Instruction/Products:	Instructional Resources/Textbook Correlations:											
<p>Lecture using transparencies and note taking on:</p> <ol style="list-style-type: none"> 1. Apply the Counting Principle and Permutations (10.1) 2. Use Combinations and the Binomial Theorem (10.2) 3. Define and Use Probability (10.3) 4. Find Probabilities of Disjoint and Overlapping Events (10.4) 5. Find Probabilities of Independent and Dependent Events(10.5) 6. Construct and Interpret Binomial Distributions (10.6) <p>Math Activity and student directed assignment for test review of concepts</p>	<p>McDougal Littell/ Larson Algebra 2</p> <p>CH 10 pages 680 - 741</p>											
Language of Instruction	Weblinks/Other Resources:											
<p>Permutation combination binomial theorem Probability compound event overlapping events Disjoint events independent events dependent events Conditional probability random variables Binomial distribution</p>	<p>www.coolmath.com</p>											
Evaluation/External Assessment/Local Assessment:	Best Instruction Timeline:											
<p>Daily Homework In-class work End of Unit Test 2-6 Quizzes</p>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Day 1</td> <td style="width: 50%;">Day 8, 9</td> </tr> <tr> <td>Day 2, 3</td> <td>Day 10, 11</td> </tr> <tr> <td>Day 4</td> <td>Day 12</td> </tr> <tr> <td>Day 5</td> <td>Day 13</td> </tr> <tr> <td>Day 6, 7</td> <td>Day 14</td> </tr> </table>		Day 1	Day 8, 9	Day 2, 3	Day 10, 11	Day 4	Day 12	Day 5	Day 13	Day 6, 7	Day 14
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