



# Algebra II Pacing & Assessment Guide

JMCSS DEPARTMENT OF CURRICULUM & INSTRUCTION

## TNReady Algebra II Math Blueprint

Clusters on Part I	Part I		Additional Clusters on Part II	Part II		% of Test
	# of Items	% of PT I		# of Items	% of PT II	
<b>Number Systems: Real and Complex</b> <ul style="list-style-type: none"> <li>Extend the properties of exponents to rational exponents</li> <li>Perform arithmetic operations with complex numbers.</li> <li>Use complex numbers in polynomial identities and equations.</li> </ul>	1-3	7-9%	No additional clusters	1-3	4-6%	5-7%
<b>Structure and Operations with Expressions and Quantities</b> <ul style="list-style-type: none"> <li>Reason quantitatively and use units to solve problems.</li> <li>Interpret the structure of expressions.</li> <li>Write expressions in equivalent forms to solve problems.</li> <li>Understand the relationship between zeros and factors of Polynomials</li> <li>Use polynomial identities to solve problems</li> <li>Rewrite rational expressions</li> </ul>	6-8	24-26%	No additional clusters	5-7	14-16%	18-20%
<b>Creating and Reasoning with Equations and Inequalities</b> <ul style="list-style-type: none"> <li>Create equations that describe numbers or relationships</li> <li>Understand solving equations as a process of reasoning and explain the reasoning</li> <li>Solve equations and inequalities in one variable</li> <li>Solve systems of equations</li> <li>Represent and solve equations and inequalities graphically</li> </ul>	5-7	22-24%	No additional clusters	4-6	11-13%	15-17%



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<p><b>Interpreting and Building Functions</b></p> <ul style="list-style-type: none"> <li>Understand the concept of a function and use function notation</li> <li>Interpret functions that arise in applications in terms of the context</li> <li>Analyze functions using different representations</li> <li>Build a function that models a relationship between two quantities</li> <li>Build new functions from existing functions</li> </ul>	7-9	29-31%	<p><b>No additional clusters</b></p>	6-8	17-19%	21-23%
<p><b>Linear, Quadratic, Exponential and Trigonometric Functions and Conic Equations</b></p> <ul style="list-style-type: none"> <li>Construct and compare linear, quadratic, and exponential models and solve problems</li> <li>Translate between the geometric description and the equation for a conic section</li> </ul>	1-3	4-6%	<p><b>Linear, Quadratic, Exponential and Trigonometric Functions and Conic Equations</b></p> <ul style="list-style-type: none"> <li>Interpret expressions for functions in terms of the situation they model</li> <li>Extend the domain of trigonometric functions using the unit circle</li> <li>Model periodic phenomena with trigonometric functions</li> <li>Prove and apply trigonometric identities</li> </ul>	8-10	21-23%	14-16%
<p><b>Interpreting Data, Making Inferences and Justifying Conclusions</b></p> <ul style="list-style-type: none"> <li>Understand and evaluate random processes underlying statistical processes</li> <li>Make inferences and justify conclusions from sample surveys, experiments, and observational studies</li> </ul>	2-4	9-11%	<p><b>Interpreting Data, Making Inferences and Justifying Conclusions</b></p> <ul style="list-style-type: none"> <li>Summarize, represent, and interpret data on a single count or measurement variable</li> <li>Summarize, represent, and interpret data on two categorical and quantitative variables</li> <li>Understand independence and conditional probability and use them to interpret data</li> <li>Use the rules of probability to compute probabilities of compound events in a uniform probability model</li> </ul>	10-12	27-29%	20-22%
<b>Total</b>	<b>22-34</b>	<b>100%</b>	<b>Total</b>	<b>34-46</b>	<b>100%</b>	<b>100%</b>