Unit 2A Review

 What is the make-up of the test? 10 Multiple Choice 11 Short Answer You will have the whole class period to complete this test. Come with specific questions if you have them before the test as there will be no review. 	 What topics should I expect to see? Key Features of a Parabola Transformations Factoring
	The different forms of quadraticsGraphing Parabolas

Test Tips:

- Use your calculator to check your work.
 - \circ $\;$ Does your factored form match the graph of the standard form?
 - Is the vertex/x-intercepts correct once I plug my form in to graph?
 - Need to find the factors of a number? Put it into y= (your number)/x then check the table.
 - \circ Need to find the greatest common denominator to factor out? Go to Math \rightarrow Num \rightarrow 9
 - gcd(#,#) Output will be what you need to factor out!

Djifferent Forms:

Standard Form: $y = ax^2 + bx + c$	This is what you get when you expand the other
	forms!!
Intercept Form: $y = a (x - p) (x - q)$	x-intercepts will be (p , 0) and (q , 0).
	*Remember, x is always opposite of what is in parenthesis.
	*Other names for x-intercepts include roots, zeros and solutions.
Vertex From: $y = a (x - h)^2 + k$	Vertex: (h ,k)
	*Remember the x-value is opposite of what is in parenthesis the y-value keeps the sign of k.

Factoring:

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How to factor when a is 1:	How to factor when a is not 1:
Find two numbers that multiply to c and add to b when looking at standard form!	Find two numbers that multiply to (ac) and add to b when looking at standard form!
Say these numbers are s and t.	Say these numbers are s and t.
Your factored form is now $y=(x + s)(x + t)!$	
	Rewrite your equation, in the form:
*Remember s and t keep their signs when we factor!	$y = ax^2 + sx + tx + c$
	*Continue to factor until you have the most
	simplified form. (See examples from review)