

Commencement Level Mathematics Courses Algebra 1, Geometry & Algebra 2

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Overview of Presentation

- Common Core Implementation
- Two Courses & Two Regents Exams
- CC Algebra 2 &
Algebra 2 Trigonometry Options
- Our Recommendations

Timeline of Common Core Implementation

School Year	Grades/Courses Impacted
2011 – 2012	K – 2
2012 – 2013	3 – 8
2013 – 2014	Algebra 1
2014 – 2015	Geometry
2015 – 2016	Algebra 2

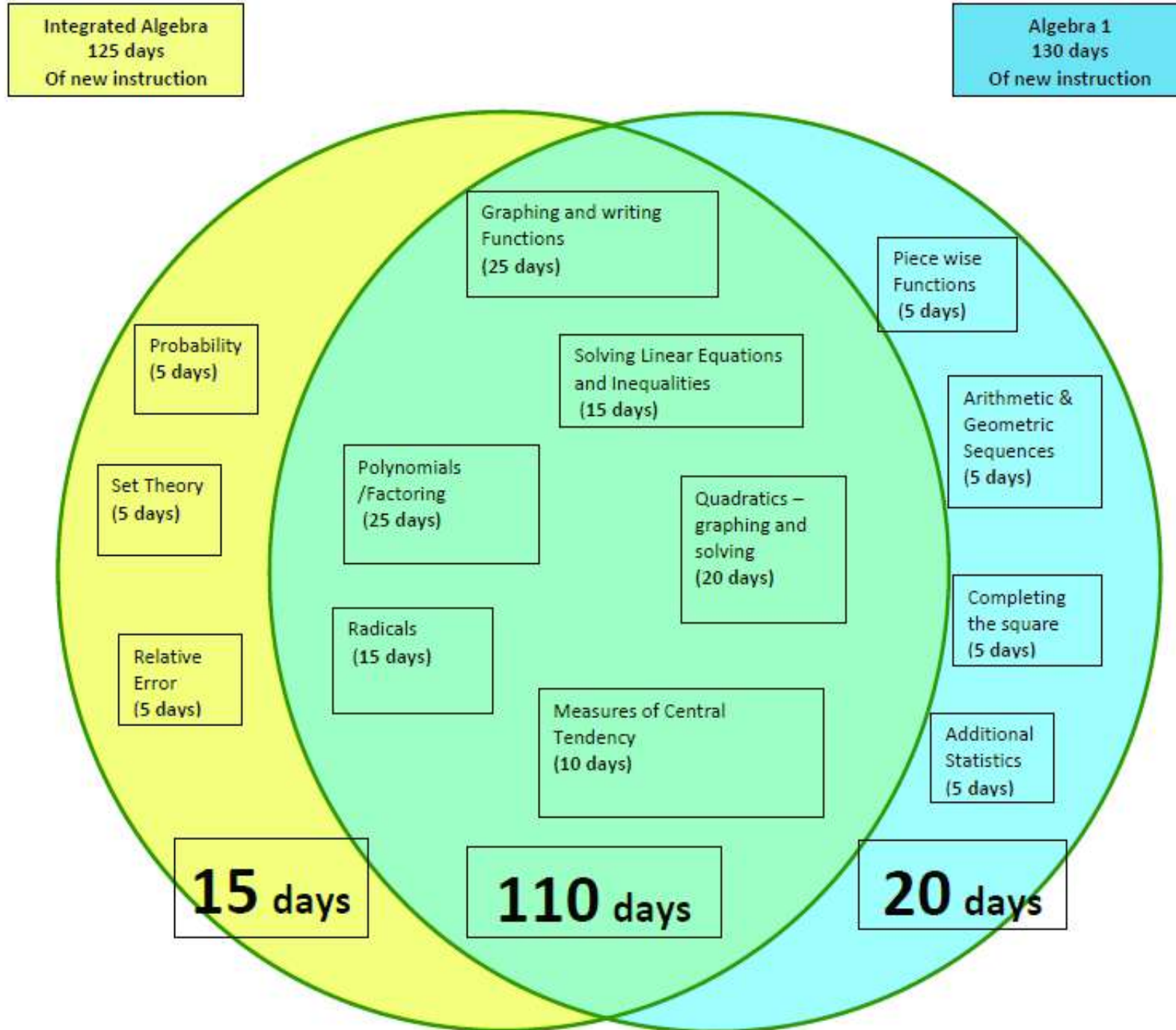
Common Core Implementation

- “The Department began the implementation of new Common Core Regents Examinations in mathematics in June 2014. Students who, in the 2013-14 school year or thereafter, regardless of grade of enrollment, began their first commencement-level mathematics course culminating in a Regents Exam in June 2014 or later **were required to take the New York State CCLS Regents Exam in mathematics that corresponded to that course, as available, and be provided with Common Core instruction.**”

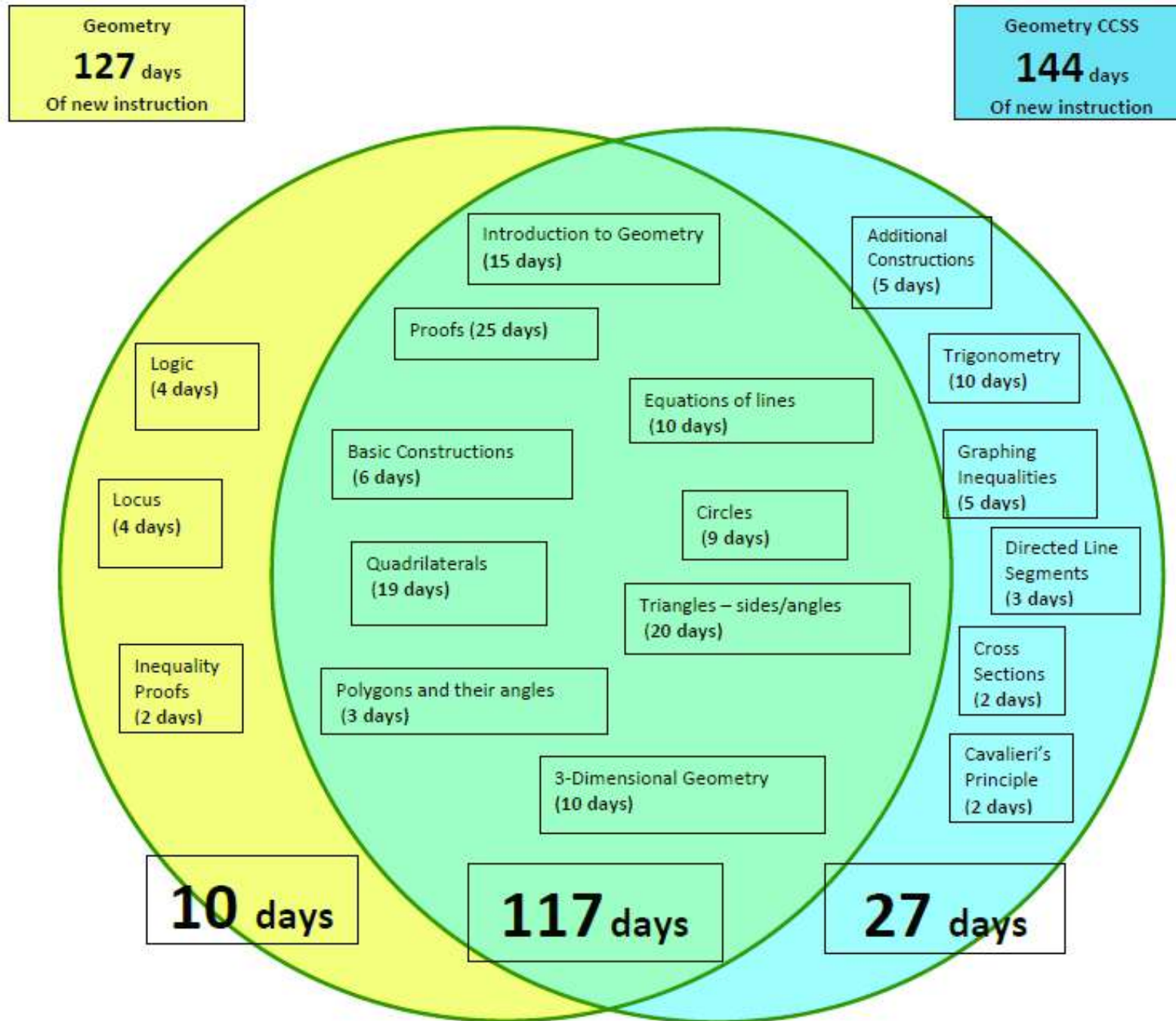
Two Regents Exams

- During the first year of implementation, the NYSED gave students the option of taking the “old” and “new” Regents exams.
- Students’ transcripts would reflect the highest of the two grades.
- In HHH, we successfully prepared students for both Regents exams in Algebra 1 and Geometry because of the overlap in curricula in both the “old” and “new” courses

Algebra 1 vs. Integrated Algebra



CC Geometry vs. “old” Geometry



Algebra 2 vs. Algebra 2 & Trigonometry

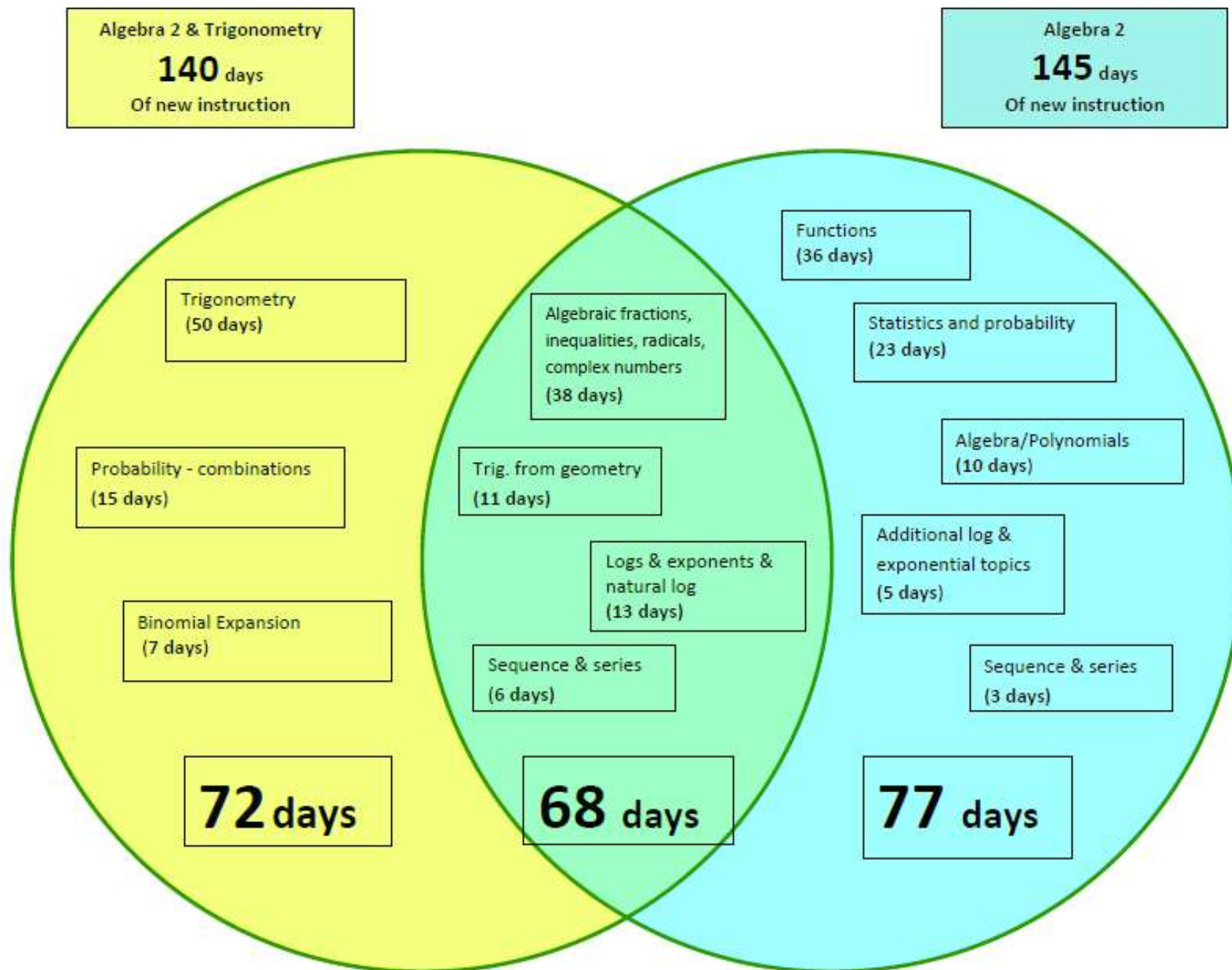
- Only 1/3 of curriculum is the same as the Algebra 2 & Trigonometry curriculum
- The state recognized this, and in May 2015, announced that students would not have the option to take both exams, saying:

The courses of Algebra II (Common Core) and Algebra 2/Trigonometry are distinctly different. Allowing students to take both exams would place an unnecessary burden on students and teachers to cover standards for both courses.

Algebra 2 vs. Algebra 2 & Trigonometry

- In August 2015, NYSED changed their mind, suggesting that in November, they would pass regulations that students may be given the option of taking both exams (A2T and CC Algebra II) and allow the higher of the two grades appear on the transcript.
- The CC Algebra 2 Regents will be on June 1st and the Algebra 2 & Trigonometry Regents will be on June 17th – leaving at most 8 additional days of instruction.

Algebra 2 vs. Algebra 2 & Trigonometry



Preparing for Both Courses & Regents Exams

Algebra	Geometry	Algebra 2/Trig.	Week
Integrated Algebra (old)	Geometry (old)	Algebra 2/Trigonometry (old)	1
Algebra I (Common Core)	Geometry (Common Core)	Algebra 2 (Common Core)	2
Probability	Logic	Trigonometry	3
Set Theory	Locus		4
Relative Error	Intro to Geometry		5
Graphing and Writing	Proofs		6
			7
			8
			9
			10
Solving Linear Equations	Equations of Lines	Probability	11
Radicals	Basic Construct.		12
	Circles	Binomial Expansion	13
Polynomials/Factoring	Quadrilaterals	Algebraic fractions, inequalities, radicals, complex numbers	14
			15
Quadratics - Graphing & Solving	Triangles - sides/angles		16
			17
			18
			19
			20
Central Tendency	polygons	Trig. From Geometry	21
Piece wise fn.	3-Dimensional	Logs & exponents & natural log	22
Arith/Geom Seq.	Geom. Dir. Line		23
Add'l Stats.	Addl. Construc.	Seq. and Series	24
Compl. Sq.	Trigonometry		25
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			34
			35
			36
			37
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			43
			44

145 days

154 days

217 days

Final Algebra 2 & Trigonometry Administrations

There are three administrations of the Algebra 2 & Trigonometry Regents exams remaining:

- June 2016
- August 2016
- January 2017

Final Algebra 2 & Trigonometry Administrations

Taking the A2T Regents in **June 2016**

Pros

- All students are interested
- There is no lapse in instructional time
- Potential of a higher Regents grade
- Potential of a higher course average
- Students will have more chances to take this exam

Cons

- Way too much content - an additional 77 days of instruction is needed
- Students focus will be distracted from performing at their best ability on either Regents

Final Algebra 2 & Trigonometry Administrations

Taking the A2T Regents in **August 2016**

Pros

- Summer time can be used to learn the content
- There is a small lapse in instructional time
- Potential of a higher Regents grade
- Potential of a higher course average
- Students will have two chances to take this exam

Cons

- Still not enough time to master the content - an additional 77 days of instruction is needed
- Which students would want to take this Regents exam?

Final Algebra 2 & Trigonometry Administrations

Taking the A2T Regents in **January 2017**

Pros

- More time to learn content within our regularly scheduled math courses
- Can focus on one course at a time
- Potential of a higher Regents grade
- Potential of a higher course average

Cons

- Large lapse in instructional time
- Only those wanting a higher Regents grade or who have failed the Regents will be interested
- Doesn't help with college admissions for seniors

Our Recommendations

- Instruction to focus on CC Algebra 2 only
- Allow any interested student to take any of the remaining Algebra 2 & Trigonometry Regents
- With projected enrollment in these Algebra 2 & Trigonometry exams, we will offer Regents review classes to support these students
- Decrease the weight of all math Regents exams to 10% of the overall course average.