

# Syosset School District

## Commencement Level Common Core Mathematics

Board Meeting: Sept. 21, 2015

Angela Kozlowski

Coordinator of Mathematics K-12

- The implementation of the Common Core Curriculum started in 2012/2013 grades K-8
- The Commencement Level Curriculum phase in for Algebra 1, Geometry and Algebra II started 2013/2014
  - Common core curriculum was taught to students starting their high school program beginning in the year 2013/2014
    - 2013/2014: Algebra I - Syosset Grade 8
    - 2014/2015: Geometry - Syosset Grade 9
    - 2015/2016: Algebra II – Syosset Grade 10

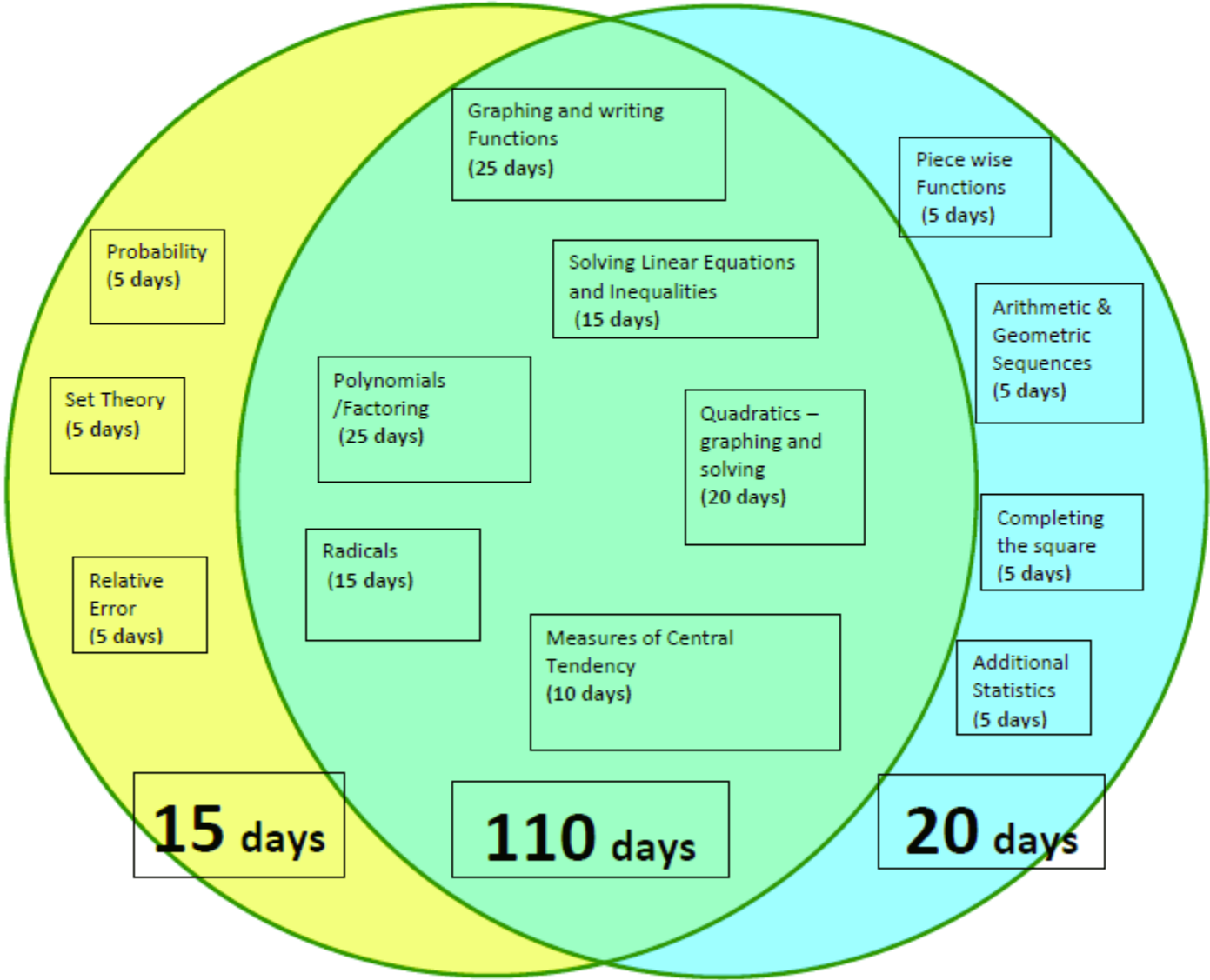
- As each new curriculum was introduced, at the commencement level, the NYSED gave students the option of taking the “old” and “new” exams.
- Students’ transcripts would reflect the highest of the two grades.
- In Syosset, we were able to successfully prepare students for both exams in Algebra 1 and Geometry because of the substantial overlap in curriculum in both the “old” and “new”

For Algebra 1:

There was approximately  $\frac{3}{4}$  overlap in content

Integrated Algebra  
125 days  
Of new instruction

Algebra 1  
130 days  
Of new instruction

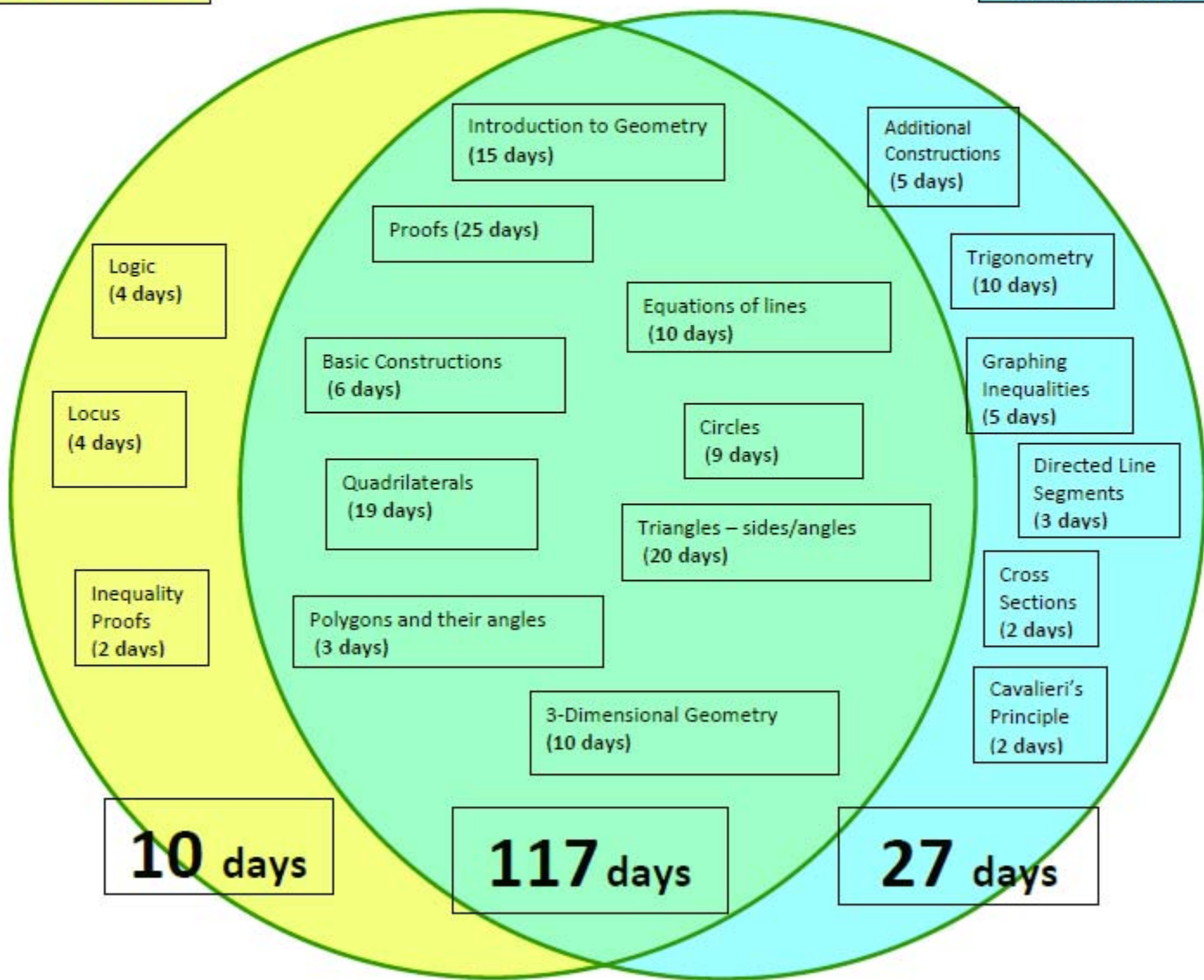


For Geometry:

There was even more overlap in content

Geometry  
**127** days  
Of new instruction

Geometry CCSS  
**144** days  
Of new instruction



## For Algebra II

- For Algebra II, only 1/3 of curriculum is the same as the Algebra 2 Trigonometry curriculum
- The state recognized this also, and in May, 2015 stated that students would **not** have option to take both exams

*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 & Trigonometry

**140** days

Of new instruction

Algebra 2

**145** days

Of new instruction

Trigonometry  
(50 days)

Probability - combinations  
(15 days)

Binomial Expansion  
(7 days)

**72** days

Algebraic fractions,  
inequalities, radicals,  
complex numbers  
(38 days)

Trig. from geometry  
(11 days)

Logs & exponents &  
natural log  
(13 days)

Sequence & series  
(6 days)

**68** days

Functions  
(36 days)

Statistics and probability  
(23 days)

Algebra/Polynomials  
(10 days)

Additional log &  
exponential topics  
(5 days)

Sequence & series  
(3 days)

**77** days

In August, 2015, NYSED appeared to change their mind.

They suggested that in November, they would pass regulations that students may be given the option of taking both exams (A2T and Algebra II) and allow the higher of the two grades appear on the transcript.

| Algebra                  |                                 | Geometry       |                          | Algebra 2/Trig.              |              | Week |
|--------------------------|---------------------------------|----------------|--------------------------|------------------------------|--------------|------|
| Integrated Algebra (old) | Probability                     | Geometry (old) | Logic                    | Algebra 2/Trigonometry (old) | Trigonometry | 1    |
|                          | Set Theory                      |                | Locus                    |                              | In. Pr.      | 2    |
|                          | Relative Error                  |                | Intro to Geometry        |                              | 3            |      |
|                          | Graphing and Writing            |                | Proofs                   |                              | 4            |      |
|                          |                                 |                |                          |                              | 5            |      |
|                          | Solving Linear Equations        |                | Equations of Lines       |                              | 6            |      |
|                          |                                 |                |                          |                              | 7            |      |
|                          | Radicals                        |                | Basic Construct. Circles |                              | 8            |      |
|                          |                                 |                |                          |                              | 9            |      |
|                          | Polynomials/Factoring           |                | Quadrilaterals           |                              | 10           |      |
|                          |                                 |                |                          |                              | 11           |      |
|                          | Quadratics - Graphing & Solving |                | Triangles - sides/angles |                              | 12           |      |
|                          |                                 |                |                          |                              | 13           |      |
|                          | Central Tendency                |                | polygons                 |                              | 14           |      |
| 15                       |                                 |                |                          |                              |              |      |
| Piece wise fn.           | 3-Dimensional Geom.             | 16             |                          |                              |              |      |
| Arith/Geom Seq.          | Dir. Line                       | 17             |                          |                              |              |      |
| Add'l Stats.             | Addl. Construc.                 | 18             |                          |                              |              |      |
| Compl. Sq.               | Trigonometry                    | 19             |                          |                              |              |      |
|                          | Graphing Ineq.                  | 20             |                          |                              |              |      |
|                          | x-sec Cav.                      | 21             |                          |                              |              |      |
|                          |                                 | 22             |                          |                              |              |      |
|                          |                                 | 23             |                          |                              |              |      |
|                          |                                 | 24             |                          |                              |              |      |
|                          |                                 | 25             |                          |                              |              |      |
|                          |                                 | 26             |                          |                              |              |      |
|                          |                                 | 27             |                          |                              |              |      |
|                          |                                 | 28             |                          |                              |              |      |
|                          |                                 | 29             |                          |                              |              |      |
|                          |                                 | 30             |                          |                              |              |      |
|                          |                                 | 31             |                          |                              |              |      |
|                          |                                 | 32             |                          |                              |              |      |
|                          |                                 | 33             |                          |                              |              |      |
|                          |                                 | 34             |                          |                              |              |      |
|                          |                                 | 35             |                          |                              |              |      |
|                          |                                 | 36             |                          |                              |              |      |
|                          |                                 | 37             |                          |                              |              |      |
|                          |                                 | 38             |                          |                              |              |      |
|                          |                                 | 39             |                          |                              |              |      |
|                          |                                 | 40             |                          |                              |              |      |
|                          |                                 | 41             |                          |                              |              |      |
|                          |                                 | 42             |                          |                              |              |      |
|                          |                                 | 43             |                          |                              |              |      |
|                          |                                 | 44             |                          |                              |              |      |

145 days

154 days

217 days

## Options Under Consideration:

### Option 1:

Continue to prepare students for only the new Algebra II CC exam

- reasons: students have shown success in previous CC exams
- they need CC instruction to continue their studies next year
- state requires that CC instruction be given
- state requires that they take CC exam

### Option 2:

Prepare students for Algebra 2 & Trigonometry (old) exam

### Option 3:

Prepare students for both exams

There are two weeks between new and old exams in June

How do we teach 1.5 years worth of curriculum in 1 year?

- create a ½ year every day Trigonometry course that is put in students schedule in Spring semester to cover topics in A2T
- extra classes – before, after, weekends