

# System of Mastery – Math Common Core Standards

## Number and Quantity – The Real Number System (N-RN)

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)  | Master<br>(Grade/Subject/Quarter) | Review<br>(Grade/Subject/Quarter) |
|----------------------|--|-----------------------------------|-----------------------------------|
| N-RN.1               | Alg I – Q3 – 7.3   | Alg II – Q2/Q3 – 6.6              | Pre-Calc & Calc                   |
| N-RN.2               | BP1 – Q1 – Ch 2, BP2 – Q1 – Ch 2, Pre-Alg – Q3 – Ch 9 & 10, Alg I – Q3 & Q4 – 7.3 & 10.4 | Alg II – Q2/Q3 – 6.6              | Pre-Calc & Calc                   |
| N-RN.3               | Pre-Alg – Q3 – Ch 9 & 10, Alg I – Q4 – 10.2 ext  | Alg II – Q2/Q3 – Chapter 6        | Pre-Calc & Calc                   |

## Number and Quantity – Quantities (N-Q)

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)   | Master<br>(Grade/Subject/Quarter) | Review<br>(Grade/Subject/Quarter)        |
|----------------------|---|-----------------------------------|--|
| N-Q.1 (★)            | BP1 – S1 – Ch 1-4, BP2 – Q1 – Ch 1 & 2, Pre-Alg – All Year – Ch 2, 3, 9, Alg I – Q1 – 2.6-2.9 | Alg I Q1-Q4 – 3.2, 4.5, 7.5       | Geo – Q1 – 1.2-1.7 & throughout the year |
| N-Q.2 (★)            | BP1 – S1 – Ch 1-4, BP2 – Q1 – Ch 1 & 2, Pre-Alg – All Year – Ch 2, 3, 9, Alg I – Q1 – 2.6 ext | Geo – Q1 – 3.4                    | Alg II, Pre-Calc & Calc                  |
| N-Q.3 (★)            | BP1 – S1 – Ch 1-4, BP2 – Q1 – Ch 1 & 2, Pre-Alg – All Year – Ch 2, 3, 9, Alg 1 – Q1 – 1.3 ext | Geo – Q1 – 1.2 ext                | Alg II, Pre-Calc & Calc                  |

Number and Quantity – The Complex Number System

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter) | Master<br>(Grade/Subject/Quarter) | Review<br>(Grade/Subject/Quarter) |
|----------------------|---|-----------------------------------|-----------------------------------|
| N-CN.1               | Alg II – Q2 – 4.4                             | Alg II – Q2 – 4.4                 | Pre-Calc – Q1 & Q3 – 2.4 & 9.5    |
| N-CN.2               | Alg II – Q2 – 4.4                             | Alg II – Q2 4.4                   | Pre-Calc – Q3 – 9.5               |
| N-CN.3 (+)           | Alg II – Q2 – 4.4                             | Pre-Calc – Q3 – 9.5               |                                   |
| N-CN.4 (+)           | Alg II – Q2 – 4.4 ext                         | Pre-Calc – Q3 – 9.5               |                                   |
| N-CN.5 (+)           | Alg II – Q2 – 4.4 ext                         | Pre-Calc – Q3 – 9.5               |                                   |
| N-CN.6 (+)           | Alg II – Q2 – 4.4 ext                         | Pre-Calc – Q3 – 9.5               |                                   |
| N-CN.7               | Alg II – Q2 – 4.5 & 4.6                       | Pre-Calc – Q1 – 2.4               |                                   |
| N-CN.8 (+)           | Alg II – Q2 – 4.4 & 4.6                       | Pre-Calc – Q1 – 2.4               |                                   |
| N-CN.9 (+)           | Alg II – Q2 – 5.7                             | Pre-Calc – Q1 – 2.4               | Rest of Pre-Calc and Calc         |

Number and Quantity – Vector and Matrix Quantities

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter) | Master<br>(Grade/Subject/Quarter) | Review<br>(Grade/Subject/Quarter) |
|----------------------|---|-----------------------------------|-----------------------------------|
| N-VM.1 (+)           | Pre-Calc – Q3 – 8.1                           | Pre-Calc – Q3 – 8.1               |                                   |
| N-VM.2 (+)           | Pre-Calc – Q3 – 8.1                           | Pre-Calc – Q3 – 8.1               |                                   |
| N-VM.3 (+)           | Pre-Calc – Q3 – 8.1 & 8.2                     | Pre-Calc – Q3 – 8.1 & 8.2         |                                   |
| N-VM.4.a (+)         | Pre-Calc – Q3 – 8.1, 8.2 & 8.3                | Pre-Calc – Q3 – 8.1, 8.2 & 8.3    |                                   |
| N-VM.4.b (+)         | Pre-Calc – Q3 – 8.1, 8.2                      | Pre-Calc – Q3 – 8.1, 8.2          |                                   |
| N-VM.4.c (+)         | Pre-Calc – Q3 – 8.1                           | Pre-Calc – Q3 – 8.1               |                                   |
| N-VM.5.a (+)         | Pre-Calc – Q3 – 8.2                           | Pre-Calc – Q3 – 8.2               |                                   |
| N-VM.5.b (+)         | Pre-Calc – Q3 – 8.1                           | Pre-Calc – Q3 – 8.1               |                                   |
| N-VM.6 (+)           | Alg II – Q1/Q2 - 3.5-3.8                      | Pre-Calc – Q2 – 6.1 – 6.3         |                                   |
| N-VM.7 (+)           | Alg II – Q1 – 3.5                             | Pre-Calc – 6.2 & 6.3              |                                   |

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| N-VM.8 (+)  | Alg II – Q1/Q2 - 3.5-3.6 | Pre-Calc – 6.2 & 6.3 |  |
| N-VM.9 (+)  | Alg II – Q1/Q2 - 3.5-3.6 | Pre-Calc – 6.2       |  |
| N-VM.10 (+) | Alg II – Q1/Q2 - 3.8     | Pre-Calc – 6.2       |  |
| N-VM.11 (+) | Pre-Calc – Q3 – 8.4 ext  |                      |  |
| N-VM.12 (+) | Pre-Calc – Q2 – 6.2 ext  |                      |  |

Algebra – Seeing Structure in Expressions

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)  | Master<br>(Grade/Subject/Quarter)   | Review<br>(Grade/Subject/Quarter)            |
|----------------------|--|---|--|
| A-SSE.1.a (★)        | BP1 – Q1 – Ch1, BP2 – Q2 – Ch4, Pre-Alg – S1 – Ch1, 4, Alg I – Q1 & S2 – 1.1, 1.4, 8.1 & 9.1 | Alg II – Q1 & Q2 – 1.1 & 4.1  | Pre-Calc – 2.2, 3.4, 4.4, 4.5, 5.1, 5.2, 5.3 |
| A-SSE.1.b(★)         | Alg I – Q1 & Q3 - 1.2, 1.3, 9.7  | Alg II – All Year – 1.1, 1.4, 2.2, 2.4, 2.6, 2.7, 4.1, 4.6, 4.7, 5.4, 9.2-9.6, 10.7 | Pre-Calc – Q2 - 5.2                          |
| A-SSE.2              | BP2 – Q4 – Ch 9, Pre-Alg – Q3 – Ch 8, Alg I – Q1 & Q3 – 1.1-1.4, 7.1-7.4, 8.5-8.9            | Alg II – All Year – 1.2, 4.3, 4.5, 6.4, 6.5, 7.2-7.8                                | Pre-Calc and Calculus                        |
| A-SSE.3.a (★)        | Pre-Alg – Q4 – Ch 14, Alg I – Q3 – 8.5 – 8.9   | Alg II – Q2 – 4.3 & 4.4   | Pre-Calc – S1 – 3.3, 3.4, 5.3, 5.4           |

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| A-SSE.3.b (★) | Alg I – Q3 – 9.3 & 9.4 | Alg II – Q2 – 4.5       | Alg II S2 & Pre-Calc and Calc |
| A-SSE.3.c (★) | Alg I – Q3 – 7.6 ext   | Alg II – Q3 – 7.1 & 7.2 | Pre-Calc – Q1 – 3.1 & 3.4     |
| A-SSE.4 (★)   | Alg II – Q4 – 10.3     | Alg II – Q4 – 10.3      | Pre-Calc – Q4 – 10.3          |

Algebra – Arithmetic with Polynomials and Rational Expressions

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)   | Master<br>(Grade/Subject/Quarter) | Review<br>(Grade/Subject/Quarter) |
|----------------------|---|-----------------------------------|-----------------------------------|
| A-APR.1              | Pre-Alg – Q4 – Ch 14, Alg I –<br>Q3 – 8.1 – 8.4 | Alg II – Q2 – 4.3 & 5.1           | Pre-Calc – Q1 – 2.2               |
| A-APR.2              | Alg II – Q2 – 5.6                               | Alg II – Q2 – 5.6                 | Pre-Calc – Q1 - 2.3               |
| A-APR.3              | Alg II – Q2 – 5.7                               | Alg II – Q2 – 5.7                 | Pre-Calc – Q1 – 2.2 & 2.4         |
| A-APR.4              | Alg II – Q2 – 4.3 – 4.6                         | Alg II – Q2 – 5.7                 | Pre-Calc – Q4 – 10.5              |
| A-APR.5 (+)          | Alg II – Q4 – 10.6                              | Pre-Calc – Q4 – 10.5              | Prob & Stats                      |
| A-APR.6              | Alg I – Q3 – Chapter 10<br>Alg II – Q2 – 5.2    | Alg II – Q2 – 5.2                 | Pre-Calc – Q1 – 2.3               |

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| A-APR.7 (+) | Alg I – All Year – 1.5, 2.1-2.5, 2.9, 3.2, 5.1-5.5, 7.6, 8.5-8.7, 9.4, 9.5, 10.4, 11.8 | Alg II – All Year – 1.3-1.6, 4.3-4.8, 5.5-5.7, 7.2-7.8, 8.6 | Pre-Calc – 2.5, 3.4 |
|-------------|--|---|---------------------|

Algebra – Creating Equations (★)

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)  | Master<br>(Grade/Subject/Quarter)                                   | Review<br>(Grade/Subject/Quarter) |
|----------------------|--|---|-----------------------------------|
| A-CED.1 (★)          | BP1 – Q2 – Ch 5, BP2 – Q2 – Ch 3, Pre-Alg – Q2 – Ch 4 & 5, Alg I – All Year – 1.5, 2.1-2.9, 3.2, 5.1-5.5, 7.6, 8.5-8.7, 9.4, 9.5, 10.4, 11.5 | Alg II – All Year – 1.3-1.6, 4.3-4.8, 5.5-5.7, 7.2-7.8, 8.6         | Pre-Calc – Q1 – 2.5-3.4           |
| A-CED.2 (★)          | BP2 – Q3 – Ch 6, Pre-Alg – Q3 – Ch 8, Alg I – Q2-Q4 – 1.7, 3.1-3.6, 4.1-4.7, 6.1-6.5, 7.5, 7.6, 8.6-8.8, 9.1-9.5, 10.1, 10.4, 11.2, 11.8     | Alg II – All Year – Chapters 2-9                                    | Pre-Calc and Calculus             |
| A-CED.3 (★)          | Alg I – Q2 – 4.2, 5.6, 6.1, 6.2  | Alg II – Q1-Q3 – 1.4-1.6, 2.6-2.8, 3.1-3.4, 3.7, 3.8, 4.8, 7.8, 8.6 | Pre-Calculus – Q2 – 6.5           |
| A-CED.4 (★)          | BP2 – Q1 – Ch 1, Alg I – S1 – 2.8, 2.9, 4.1  | Alg II – Q2-Q4 – 4.6, 9.1, 9.3, 10.2                                | Pre-Calc – Q1-Q3 – 3.4, 5.3, 7.5  |

Algebra – Reasoning with Equations and Inequalities

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)  | Master<br>(Grade/Subject/Quarter)                                | Review<br>(Grade/Subject/Quarter)                       |
|----------------------|--|--|---|
| A-REI.1              | BP1 – Q2 – Ch 5, BP2 – Q2 – Ch 3, Pre-Alg – Q2 – Ch 4 & 5, Alg I – Q1 & Q3 – 1.5, 2.2-2.9, 8.6-8.9     | Alg II Q1-Q3 – 1.3, 1.4, 4.5, 4.6, 5.5, 6.7, 7.2, 7.4, 8.6, 13.5 | Pre-Calc – S1 – 2.1, 2.4-2.6, 3.1, 3.4, 5.3             |
| A-REI.2              | Alg II – Q3 – 6.7, 8.6   | Alg II – Q3 – 6.7, 8.6   | Pre-Calc – Q1 – 2.1, 2.5                                |
| A-REI.3              | BP1 – Q2 – Ch 5, BP2 – Q2 & Q3 – Ch 3 & 9, Pre-Alg – Q2 – Ch 4 & 5, Alg I – S1 – 1.5, 2.2-2.9, 5.1-5.5 | Alg I – S1 – 1.5, 2.2-2.9, 5.1-5.5                               | Alg II – Q1 - 1.5, 1.6<br>Pre-Calc – Q2 – 6.1, 6.3, 6.5 |
| A-REI.4.a            | Alg I – S2 – 9.4, 9.5, 10.2  | Alg II – Q2 - 4.5 & 4.6  | Pre-Calc and Calculus                                   |
| A-REI.4.b            | Alg I – 8.6 – 8.8, 9.2-9.5   | Alg II – Q2 - 4.2 – 4.6  | Pre-Calc and Calculus                                   |
| A-REI.5              | Alg I – Q2 – 6.4   | Alg II – Q1 – 3.1  | Alg II – Q1 – Chapter 3                                 |
| A-REI.6              | Alg I – Q2 – 6.1 – 6.5   | Alg II – Q1 – Chapter 3  | Pre-Calc – 6.1 & 6.3                                    |
| A-REI.7              | Alg I – 9.3  | Alg II – 9.7   | Pre-Calc – 7.4 ext                                      |
| A-REI.8 (+)          | Alg II – Q1 – 3.7 & 3.8  | Pre-Calc – Q2 – 6.2 & 6.3  |   |

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|--------------|---|---|--|
| A-REI.9 (+)  | Alg II – Q1 – 3.8   | Pre-Calc – Q2 – 6.2 & 6.3   |  |
| A-REI.10     | BP2 – Q3 – Ch 6, Pre-Alg – Q3 – Ch 8, Alg I – Q1 & S2 – 1.6, 1.7, 3.1-3.4, 7.5, 9.1, 10.1 | Alg II – All Year – 2.1, 2.2, 4.1, 5.4, 6.2, 6.3, 7.1, 8.3-8.4, 9.2-9.5, 12.7 | Pre-Calc – Q1 & Q3 – 1.1, 1.2, 2.1, 2.2, 3.1, 3.2, 4.4, 7.1-7.3, 9.2 |
| A-REI.11 (★) | Alg I – Q2, Q3, Q4 – 6.1 ext, 7.5 ext, 9.3 ext, 11.8 ext                                  | Alg II – Q1 & Q3 - 3.1, 9.7   | Pre-Calc & Calc  |
| A-REI.12     | Alg I – Q2 – 5.6, 6.6   | Alg II – Q1 - 2.8, 3.2  | Pre-Calc – Q2 – 6.5  |

Functions – Interpreting Functions

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)  | Master<br>(Grade/Subject/Quarter)  | Review<br>(Grade/Subject/Quarter)                          |
|----------------------|--|--|--|
| F-IF.1               | BP2 – Q2 - Ch5, Pre-Alg – Q3 – Ch 8, Alg I – Q1 – 1.6, 1.7                                 | Alg II – Q1 – 2.1  | Pre-Calc – Q1 – 1.1  |
| F-IF.2               | BP2 – Q2 - Ch5, Pre-Alg – Q3 – Ch 8, Alg I – All Year – 1.7, 3.6, 4.3, 7.5, 7.6, 9.1, 10.1 | Alg II – Q1-Q3 – 2.1, 2.2, 2.6, 4.1, 5.3, 5.7, 6.1, 6.2, 7.3, 8.3, 8.4     | Pre-Calc – Q1 – 1.1  |
| F-IF.3               | Alg I – Q1 & Q3 – 3.5, 7.7, 7.8  | Alg II – Q4 – 10.1, 10.5   | Pre-Calc – Q4 – 10.1-10.3                                  |
| F-IF.4 (★)           | BP2 – Q2 - Ch5, Pre-Alg – Q3 – Ch 8, Alg I – All Year – 1.8, 3.1, 4.1, 7.5, 9.1, 9.7, 10.1 | Alg II – All Year – 2.1, 2.2, 2.6, 5.3, 8.4, 10.1, 12.6                    | Pre-Calc - All Year  |
| F-IF.5               | BP2 – Q2 - Ch5, Pre-Alg – Q3 – Ch 8, Alg I – Q1, Q3, Q4 – 1.7, 7.5, 7.6, 9.1, 10.1         | Alg II – All Year – 2.1, 2.6, 4.1, 5.3, 6.2, 6.3, 7.1, 7.3, 8.3, 8.4, 12.7 | Pre-Calc – S1 – 1.1, 1.2, 1.5, 2.1, 2.5, 3.1, 3.2, 4.4-4.6 |



|                  |   |  |   |
|------------------|---|--|---|
| F-IF.6 (★)       | BP2 – Q2 - Ch5, Pre-Alg – Q3 – Ch 8, Alg I – Q2-Q4 – 3.3, 7.7, 9.1, 9.6                                     | Alg II – Q1 – 2.3  | Pre-Calc and Calculus   |
| F-IF.7.a (★)     | BP2 – Q2 – Ch 5, Pre-Alg – Q3 – Ch 8, Alg I – Q2 & Q3 – 3.1, 3.2, 3.4, 4.1, 9.1-9.3                         | Alg II – S1 – 2.1, 2.2, 2.7, 3.1, 4.1, 4.2, 4.7, 9.2, 10.1                   | Alg II – S1 – 2.1, 2.2, 2.7, 3.1, 4.1, 4.2, 4.7, 9.2, 10.1 & Pre-Calc |
| F-IF.7.b (★)     | Alg I – S2 – 9.7, 10.1  | Alg II – S1 – 2.6, 6.3, 6.4  | Pre-Calc – Q1 - 1.2, 1.5, 2.1   |
| F-IF.7.c (★)     | Alg II – Q2 – 5.3 – 5.7   | Alg II – Q2 – 5.3 – 5.7  | Pre-Calc – Q1 – 2.2   |
| F-IF.7.d (★) (+) | Alg II – Q3 – 8.3-8.4   | Alg II – Q3 – 8.3 – 8.4  | Pre-Calc – Q1 – 2.5   |
| F-IF.7.e (★)     | Alg I – Q2 – 7.5 (Exp only)<br>Alg II – Q3 – 7.1, 7.3 (Log and Exp)<br>Pre-Calc – Q1 & Q2 – Ch 3 & 4 (Trig) | Alg II – Q3 – 7.1, 7.3 (Log and Exp)<br>Pre-Calc – Q1 & Q2 – Ch 3 & 4 (Trig) |   |
| F-IF.8.a         | Alg I – Q3 – 9.2-9.4  | Alg II – Q2 – 4.3, 4.5, 4.7  | Pre-Calc – Q1 – 1.2   |
| F-IF.8.b         | Alg I – Q3 – 7.1, 7.2, 7.5, 7.6   | Alg II – Q3 – 7.1, 7.8   | Pre-Calc – Q1 – 3.1, 3.4  |
| F-IF.9           | BP2 – Q2 - Ch5, Pre-Alg – Q3 – Ch 8, Alg I – Q1-Q3 – 1.7, 3.6, 4.3, 7.8, 9.1, 9.3                           | Alg II – Q1-Q3 – 2.2, 2.7, 4.1, 5.3, 6.1, 6.3, 7.1, 8.4, 9.6                 | Pre-Calc – Q1 – 1.5   |

Functions – Building Functions

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)            | Master<br>(Grade/Subject/Quarter)   | Review<br>(Grade/Subject/Quarter)     |
|----------------------|--|---|---------------------------------------|
| F-BF.1.a (★)         | Alg I – Q1-Q3 – 1.7, 3.1, 3.4,<br>3.6, 4.1-4.7, 7.6, 7.8 | Alg II – All Year – Ch 2, 4.1,<br>4.2, 5.3, 5.4, 6.3, 7.1, 7.3, 8.3-<br>8.5, 10.1, 10.5 | Pre-Calculus – Q4 – 10.1-10.3         |
| F-BF.1.b (★)         | Alg I – Q2 & Q3 – 4.2, 7.6, 9.3                          | Alg II – Q2 & Q3 – 6.1, 7.8   | Pre-Calc – Q1 – 1.6                   |
| F-BF.1.c (★) (+)     | Alg II – Q2 – 6.1  | Pre-Calc – S1 – 1.6, 4.6  | Calculus                              |
| F-BF.2 (★)           | Alg I – Q1 and Q3 – 3.5, 7.7,<br>7.8                     | Alg II – Q4 – Chapter 10  | Pre-Calc – Q4 – Chapter 10            |
| F-BF.3               | Alg I – Q2-Q4 – 4.1, 7.5, 7.6,<br>9.3, 10.1              | Alg II – All Year – 2.7, 4.7, 6.3,<br>7.1, 7.3, 8.3                                     | Pre-Calc – S1 - 1.5, 3.1, 3.2,<br>4.4 |
| F-BF.4.a             | Alg I – Q2 & Q4 - 4.7, 10.1                              | Alg II – Q2 – 6.2   | Pre-Calc – S1 – 1.7, 4.6              |
| F-BF.4.b (+)         | Alg II – Q2 – 6.2  | Alg II – Q2 – 6.2   | Pre-Calc – S1 – 1.6, 1.7, 4.6         |
| F-BF.4.c (+)         | Alg II – Q2 – 6.2  | Pre-Calc – S1 – 1.7, 4.6  |                                       |
| F-BF.4.d (+)         | Pre-Calc – 1.7, 4.6                                      | Calc  | Calc                                  |
| F-BF.5 (+)           | Alg II – Q3 - 7.3, 7.5, 7.7, 7.8                         | Pre-Calc – Q1 – 3.2, 3.3, 3.4   |                                       |

Functions – Linear, Quadratic, and Exponential Models

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)  | Master<br>(Grade/Subject/Quarter)                         | Review<br>(Grade/Subject/Quarter) |
|----------------------|--|---|-----------------------------------|
| F-LE.1.a             | Alg I – Q1 and Q3 – 3.3, 3.5,<br>7.7, 9.6  | Alg II – Q3 – 7.3, 7.8                                    | Pre-Calc – Q1 – 3.5               |
| F-LE.1.b             | BP2 – Q2 - Ch5, Pre-Alg – Q3<br>– Ch 8, Alg I – Q1 & Q3 – 3.5,<br>3.6, 7.6, 7.7, 9.6 | Alg II – Q1 & Q.3 – 2.2, 2.6,<br>10.2                     | Pre-Calc – Q3 – 10.2              |
| F-LE.1.c             | Alg I – Q3 – 7.6, 7.7, 9.6   | Alg II – S2 – 7.1, 7.8, 10.1,<br>10.3, 10.4, 10.5         | Pre-Calc - Q4 – 10.2              |
| F-LE.2               | Alg I – Q1-Q3 – 3.5, 3.6, 4.2-<br>4.6, 7.5-7.7, 9.6                                  | Alg II – All Year – 2.4, 2.5, 7.1,<br>7.2, 7.8, 10.2-10.5 | Pre-Calc – Q4 – 10.2, 10.3        |
| F-LE.3               | Alg I – Q3 – 9.6   | Alg II – Q3 – 7.3   | Pre-Calc – Q1 – 1.4, 3.5          |
| F-LE.4               | Alg II – Q3 – 7.2, 7.8   | Alg II – Q3 – 7.2, 7.8                                    | Pre-Calc – Q1 – 3.1, 3.5          |
| F-LE.5               | Alg I – Q1-Q3 – 3.4, 4.1, 4.5,<br>7.5-7.7, 9.6                                       | Alg II – 2.2-2.5, 7.1, 7.8                                | Pre-Calc – Q1 – 3.1-3.5           |

Functions – Trigonometric Functions

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter) | Master<br>(Grade/Subject/Quarter) | Review<br>(Grade/Subject/Quarter) |
|----------------------|---|-----------------------------------|-----------------------------------|
| F-TF.1               | Alg II – Q4 - 12.2, 12.6                      | Alg II Q4 – 12.2, 12.6            | Pre-Calc – Q2 – 4.2               |

|                |                           |                           |                     |
|----------------|---------------------------|---------------------------|---------------------|
| F-TF.2         | Alg II – Q4 – 12.6        | Alg II – Q4 – 12.6        | Pre-Calc – Q2 – 4.3 |
| F-TF.3 (+)     | Alg II – Q4 – 12.1-12.3   | Pre-Calc – 4.1-4.3        | Calculus            |
| F-TF.4 (+)     | Alg II – Q4 – 12.7 & 12.8 | Pre-Calc – Q2 – 4.3       | Calculus            |
| F-TF.5 (★)     | Alg II – Q4 – 12.7, 12.8  | Pre-Calc – Q2 – 4.4 – 4.6 | Calculus            |
| F-TF.6 (+)     | Alg II – Q4 – 12.9        | Pre-Calc – Q2 – 4.6       | Calculus            |
| F-TF.7 (+) (★) | Alg II – Q4 – 12.9        | Pre-Calc – Q2 – 4.1, 4.6  | Calculus            |
| F-TF.8         | Pre-Calc – Q2 – 5.1       | Pre-Calc – Q2 – 5.1       | Calculus            |
| F-TF.9 (+)     | Pre-Calc – Q2 – 5.4       | Pre-Calc – Q2 – 5.4       | Calculus            |

Geometry – Congruence

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)           | Master<br>(Grade/Subject/Quarter)            | Review<br>(Grade/Subject/Quarter) |
|----------------------|---|--|-----------------------------------|
| G-CO.1               | BP1 – Q2 – Ch 6, BP2 – Q4 – Ch 12. Pre-Alg – Q4 – Ch 11 | Geometry – Q1 & Q4 – 1.1-1.4, 3.1, 3.2, 10.1 |                                   |
| G-CO.2               | BP1 – Q4 – Ch 12, BP2 – Q3 – Ch 8                       | Geometry – Q2 & Q3 – 4.7, 7.6, 9.1-9.6       |                                   |

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| G-CO.3  | BP1 – Q4 – Ch 12, BP2 – Q3 – Ch 7  | Geometry – Q3 – 9.5  |  |
| G-CO.4  | Geometry – Q3 – 9.1-9.4  | Geometry – Q3 – 9.1-9.4  |  |
| G-CO.5  | BP1 – Q4 – Ch 12, BP2 – Q3 – Ch 8  | Geometry – Q2 & Q3 – 4.7, 9.1-9.4  |  |
| G-CO.6  | BP1 – Q4 – Ch 12, BP2 – Q3 – Ch 8  | Geometry – Q2 & Q3 – 4.7, 9.1-9.6  |  |
| G-CO.7  | BP2 – Q3 – Ch 8  | Geometry – Q2 & Q3 – 4.3, 4.7, 9.1-9.6   |  |
| G-CO.8  | Geometry – Q2 & Q3 – 4.7, 9.6  | Geometry – Q2 & Q3 – 4.7, 9.6  |  |
| G-CO.9  | BP2 – Q3 – Ch 7, Pre-Alg – Q4 – Ch 11  | Geometry – S1 – 2.7, 2.8, 3.2, 3.5, 5.1  |  |
| G-CO.10 | BP2 – Q3 – Ch 8, Pre-Alg – Q4 – Ch 10  | Geometry – Q2 & Q3 – Chapter 4 & 5, 7.4, 8.2   |  |
| G-CO.11 | BP1 – Q4 – Ch 12, BP2 – Q3 – Ch 12   | Geometry – Q2 – 6.2-6.5  |  |
| G-CO.12 | Geometry – All Year – 1.2-1.6, 2.7, 3.2-3.6, 4.1-4.6, 5.1-5.3, 6.3-6.5, 7.4, 9.1, 10.3, 10.5 | Geometry – All Year – 1.2-1.6, 2.7, 3.2-3.6, 4.1-4.6, 5.1-5.3, 6.3-6.5, 7.4, 9.1, 10.3, 10.5 |  |
| G-CO.13 | Geometry – Q4 – 10.5 ext   | Geometry – Q4 – 10.5 ext   |  |

Geometry – Similarity, Right Triangles, and Trigonometry

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)                        | Master<br>(Grade/Subject/Quarter)              | Review<br>(Grade/Subject/Quarter) |
|----------------------|--|--|-----------------------------------|
| G-SRT.1.a            | BP1 – Q2 – Ch 6, BP2 – Q3 –<br>Ch 8                                  | Geometry – Q3 – 9.6                            |                                   |
| G-SRT.1.b            | BP1 – Q2 – Ch 6, BP2 – Q3 –<br>Ch 8                                  | Geometry – Q3 – 9.6                            |                                   |
| G-SRT.2              | BP1 – Q2 – Ch 6, BP2 – Q3 –<br>Ch 8                                  | Geometry – Q3 – 7.2-7.6, 9.6                   |                                   |
| G-SRT.3              | Geometry – Q3 – 7.3, 7.6, 9.6  | Geometry – Q3 – 7.3, 7.6, 9.6                  |                                   |
| G-SRT.4              | Geometry – Q3 – 7.3-7.5, 8.1   | Geometry – Q3 – 7.3-7.5, 8.1                   |                                   |
| G-SRT.5              | BP1 – Q2 – Ch 6, BP2 – Q3 –<br>Ch 8                                  | Geometry – Q2 & Q3 – 4.3-<br>4.5, 7.3-7.6, 8.1 | Alg II – Q4 – Ch 12 & Pre-Calc    |
| G-SRT.6              | Alg I – Q4 – 10.5, 10.6  | Geometry – Q3 – 8.3-8.4                        | Alg II – Q4 – Ch 12 & Pre-Calc    |
| G-SRT.7              | Alg I – Q4 – 10.5, 10.6  | Geometry – Q3 – 8.4                            | Alg II – Q4 – Ch 12 & Pre-Calc    |
| G-SRT.8 (★)          | BP2 – Q3 – Ch 7, Pre-Alg – Q4<br>– Ch 10, Alg I – Q4 – 10.5,<br>10.6 | Geometry – Q3 – 8.2, 8.4-8.6                   | Alg II – Q4 – Ch 12 & Pre-Calc    |

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| G-SRT.9 (+)  | Alg II – Q4 – Chapter 12 | Alg II – Q4 – Chapter 12 | Pre-Calculus |
| G-SRT.10 (+) | Geometry – Q3 – 8.6      | Alg II – Q4 – Chapter 12 | Pre-Calculus |
| G-SRT.11 (+) | Geometry – Q3 – 8.6      | Alg II – Q4 – Chapter 12 | Pre-Calculus |

Geometry – Circles

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)                 | Master<br>(Grade/Subject/Quarter) | Review<br>(Grade/Subject/Quarter) |
|----------------------|---|-----------------------------------|-----------------------------------|
| G-C.1                | BP1 – Q4 – Ch 10, BP2 – Q4 – Ch 12, Pre Alg – Q4 – Chapter 11 | Geometry – Q4 – 10.1              |                                   |
| G-C.2                | Geometry – Q4 – 10.1-10.5                                     | Geometry – Q4 – 10.1-10.5         |                                   |
| G-C.3                | Geometry – Q4 – 10.4 & 10.5                                   | Geometry – Q4 – 10.4 & 10.5       |                                   |
| G-C.4 (+)            | Geometry – Q4 - 10.5  | Geometry – Q4 - 10.5              |                                   |
| G-C.5                | Geometry – Q4 – 10.2, 11.3                                    | Alg II – Q4 – 12.3, 12.4          | Pre-Calculus                      |

Geometry – Expressing Geometric Properties with Equations

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)    | Master<br>(Grade/Subject/Quarter)                  | Review<br>(Grade/Subject/Quarter) |
|----------------------|--|--|-----------------------------------|
| G-GPE.1              | Geometry – Q4 – 10.8                             | Alg II – Q4 – 9.2                                  | Pre-Calc – Q3 - Chapter 7         |
| G-GPE.2              | Alg II - Q4 – 9.3                                | Alg II – Q4 – 9.3                                  | Pre-Calc – Q3 – Chapter 7         |
| G-GPE.3 (+)          | Alg II – Q4 – 9.4-9.5                            | Alg II – Q4 – 9.4-9.5                              | Pre-Calc – Q3 – Chapter 7         |
| G-GPE.4              | Geometry – Q2 – 4.8                              | Geometry – Q2 & Q4 – 6.2-6.6, 10.8                 |                                   |
| G-GPE.5              | Alg I – Q2 – Chapter 4                           | Geometry – Q1 & Q3 – 3.3, 3.4, 7.3                 |                                   |
| G-GPE.6              | Geometry – Q1, Q3, Q4 – 1.3, 7.4, 8.7, 9.6, 10.8 | Geometry – Q1, Q3, Q4 – 1.3, 7.4, 8.7, 9.6, 10.8   |                                   |
| G-GPE.7 (★)          | BP2 – Q3 – Ch 8, Geometry – Q1 & Q4 – 1.6, 11.1  | Geometry Q1 & Q4 – 1.6, 11.1 and Alg II – Q1 – 3.7 |                                   |

Geometry – Geometric Measurement and Dimension

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter) | Master<br>(Grade/Subject/Quarter)     | Review<br>(Grade/Subject/Quarter) |
|----------------------|---|---------------------------------------|-----------------------------------|
| G-GMD.1              | Geometry – Q4 – 10.1, 11.3, 12.4-12.6         | Geometry – Q4 – 10.1, 11.3, 12.4-12.6 | Calculus                          |



|             |   |                           |                            |
|-------------|---|---------------------------|----------------------------|
| G-GMD.2 (+) | Geometry – Q4 – 12.1                                    | AP Calc 1                 | AP Calc 2                  |
| G-GMD.3 (★) | BP1 – Q4 – Ch 12, BP2 – Q4, Ch 12, Pre-Alg – Q4 – Ch 12 | Geometry – 1.7, 12.4-12.6 | Alg II, Pre-Calc, and Calc |
| G-GMD.4     | BP1 – Q4 – Ch 12, BP2 – Q4, Ch 12, Pre-Alg – Q4 – Ch 12 | Geometry – S2 – 9.3, 12.1 | Calculus                   |

Geometry – Modeling with Geometry

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)      | Master<br>(Grade/Subject/Quarter) | Review<br>(Grade/Subject/Quarter) |
|----------------------|--|-----------------------------------|-----------------------------------|
| G-MG.1 (★)           | BP1 – S2, BP2 – S2, Pre-Alg – S2, Alg I – All Year | Geometry – All Year – All Lessons |                                   |
| G-MG.2 (★)           | BP1 – S2, BP2 – S2, Pre-Alg – S2, Alg I – All Year | Geometry – Q4 – 11.2              |                                   |
| G-MG.3 (★)           | BP1 – S2, BP2 – S2, Pre-Alg – S2, Alg I – All Year | Geometry – All Year- All Sections |                                   |

Statistics and Probability – Interpreting Categorical and Quantitative Data

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)                         | Master<br>(Grade/Subject/Quarter) | Review<br>(Grade/Subject/Quarter)    |
|----------------------|---|-----------------------------------|--------------------------------------|
| S-ID.1               | BP1 – Q3 – Ch 9, BP2 – Q4 – Chapter 10, Alg I – Q4 – 0.13, 12.3, 12.4 | Alg II – Q4 – Ch 0                | Pre-Calc- Q4 – 11.1, P&S – Q1 – Ch 2 |

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| S-ID.2   | BP1 – Q3 – Ch 9, BP2 – Q4 – Chapter 10, Alg I – Q4 – 0.13, 12.3, 12.4         | Alg II – Q4 – Ch 0         | Pre-Calc – Q4 – 11.1, P&S – Q1 – Ch 2               |
| S-ID.3   | BP1 – Q3 – Ch 9, BP2 – Q4 – Chapter 10, Alg I – Q4 – 12.3, 12.4               | Alg II – Q4 – Ch 0         | Pre-Calc – Q4 – 11.1, P&S – Q1 – Ch 2, 3            |
| S-ID.4   | Alg II – Q4 – Ch 0  | Pre-Calc – Q4 – 11.3, 11.4 | P&S – Q1 & Q2 – Ch 3, 6                             |
| S-ID.5   | P&S – Q2 – Ch 6   | P&S – Q2 – Ch 6            | P&S – Q4 - Ch 12                                    |
| S-ID.6.a | BP1 – Q3 – Ch 9, BP2 – Q4 – Chapter 10, Pre-Alg – Q1 – Ch 1, Alg I – Q2 – 4.5 | Alg II – Q1 – 2.5          | Pre-Calc – Q1 & Q4 – 2.1, 3.5, 11.7, P&S – Q3 Ch 10 |
| S-ID.6.b | Alg II – Q1 – 2.5   | Alg II – Q1 – 2.5          | Pre-Calc – Q4 – 11.7, P&S – Q3 Ch 10                |
| S-ID.6.c | Alg I – Q2 – 4.5  | Alg II – Q1 – 2.5          | Pre-Calc – Q4 – 11.7, P&S – Q3 Ch 10                |
| S-ID.7   | BP2 – Q3 – Chapter 6, Pre-Alg – Q3 – Ch 8, Alg I – Q2 – 4.1, 4.4, 4.5         | Alg II – Q1 – 2.3-2.5      | Pre-Calc – Q4 - 11.7, P&S – Q3 Ch 10                |
| S-ID.8   | Alg II – Q1 – 2.5   | Pre-Calc – Q4 – 11.7       | P&S – Q3 Ch 10                                      |
| S-ID.9   | P&S – Q3 Ch 10  | P&S – Q3 Ch 10             | P&S – Q3 Ch 10                                      |

Statistics and Probability – Making Inferences and Justifying Conclusions

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter) | Master<br>(Grade/Subject/Quarter)         | Review<br>(Grade/Subject/Quarter) |
|----------------------|---|---|-----------------------------------|
| S-IC.1               | BP1 – Q3 – Ch 9, BP2 – Q4 – Ch 10             | Geo – Q4 – Ch 13, Alg II – Q4 – Chapter 0 | Pre-Calc – Q4 – 11.4, 11.5        |
| S-IC.2               | Pre-Calc – Q4 – 11.4, 11.5                    | Pre-Calc – Q4 – 11.4, 11.5                | P&S – All Year                    |
| S-IC.3               | Pre-Calc – Q4 – 11.4, 11.5                    | P&S – All Year                            | P&S – All Year                    |
| S-IC.4               | Pre-Calc – Q4 – 11.5                          |   |                                   |
| S-IC.5               | Pre-Calc – Q4 – 11.5-11.7                     | P&S – Q3 – Ch 9                           |                                   |
| S-IC.6               | Pre-Calc – Q4 – 11.6, 11.7                    | P&S – Q4 – Chapter 14                     |                                   |

Statistics and Probability – Conditional Probability and the Rules of Probability

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter)                      | Master<br>(Grade/Subject/Quarter)        | Review<br>(Grade/Subject/Quarter) |
|----------------------|--|--|-----------------------------------|
| S-CP.1               | BP1 – Q3 – Ch 8, Alg I – Q4 – 12.1, Geometry – Q4 – 13.5, 13.6     | Alg II – Q4 – Chapter 0, S&P – Q2 – Ch 4 |                                   |
| S-CP.2               | BP1 – Q3 – Ch 8, Algebra I – Chapter 0, Geometry – Q4 – 13.5, 13.6 | Alg II – Q4 – Chapter 0, S&P – Q2 – Ch 4 |                                   |

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| S-CP.3     | BP1 – Q3 – Ch 8, Algebra I – Chapter 0, Geometry – Q4 – 13.5, 13.6 | Alg II – Q4 – Chapter 0, S&P – Q2 – Ch 4       |  |
| S-CP.4     | BP1 – Q3 – Ch 8, Algebra I – Chapter 0, Geometry – Q4 – 13.5, 13.6 | Alg II – Q4 – Chapter 0, S&P – Q2 – Ch 4       |  |
| S-CP.5     | BP1 – Q3 – Ch 8, Algebra I – Chapter 0, Geometry – Q4 – 13.5, 13.6 | Alg II – Q4 – Chapter 0, S&P – Q2 – Ch 4       |  |
| S-CP.6     | BP1 – Q3 – Ch 8, Algebra I – Chapter 0, Geometry – Q4 – 13.5, 13.6 | Alg II – Q4 – Chapter 0, S&P – Q2 – Ch 4       |  |
| S-CP.7     | Geometry – Q4 – 13.5, 13.6   | Alg II – Q4 – Chapter 0, S&P – Q2 – Ch 4, Ch 5 |  |
| S-CP.8 (+) | Geometry – Q4 – 13.5, 13.6   | Alg II – Q4 – Chapter 0, S&P – Q2 – Ch 4, Ch 5 |  |
| S-CP.9 (+) | Alg II – Q4 – Chapter 0  | Alg II – Q4 – Chapter 0, S&P – Q2 – Ch 4       |  |

Statistics and Probability – Using Probability to Make Decisions

| Common Core Standard | Introduce/Practice<br>(Grade/Subject/Quarter) | Master<br>(Grade/Subject/Quarter) | Review<br>(Grade/Subject/Quarter) |
|----------------------|---|-----------------------------------|-----------------------------------|
| S-MD.1 (+)           | Pre-Calc – Q4 – 11.2                          | S&P – Q2 – Ch 5                   |                                   |
| S-MD.2 (+)           | Pre-Calc – Q4 – 11.2                          | S&P – Q2 – Ch 5                   |                                   |

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| S-MD.3 (+)   | Pre-Calc – Q4 – 11.2                | S&P – Q2 – Ch 5             |  |
| S-MD.4 (+)   | Pre-Calc – Q4 – 11.2                | S&P – Q2 & Q4 – Ch 5, Ch 11 |  |
| S-MD.5.a (+) | Pre-Calc – Q4 – 11.2                | S&P – Q2 – Ch 5             |  |
| S-MD.5.b (+) | Pre-Calc – Q4 – 11.2, 11.4,<br>11.5 |                             |  |
| S-MD.6 (+)   | Pre-Calc – Q4 – 11.2                |                             |  |
| S-MD.7 (+)   | Pre-Calc – Q4 – 11.3                |                             |  |