## Accelerated Middle School Math Sample 3

This sample plan illustrates how courses can be designed in order to accelerate identified students through middle school math in order to allow them to begin earning Carnegie credit in middle school. There are many variations from which districts and schools can choose.

The pathway identified in this sample consists of three courses:
Accelerated $\mathbf{6}^{\text {th }}$ Grade Math: This course combines all of the Common Core State Standards for Mathematics (CCSSM) for Grade 6 and some Grade 7 CCSSM into one course. The "Year at a Glance" on page 2 illustrates how the standards might be bundled by units to achieve the goal of teaching the standards included for this course. The sample plan is based on 170 days.

Accelerated $7^{\text {th }}$ Grade Math: The second course in this pathway combines the Grade 7 CCSSM which were not included in the sixth grade course and some CCSSM for Grade 8. The "Year at a Glance" on page 3 illustrates how the standards might be bundled by units to achieve the goal of teaching the CCSSM included in this course. The sample plan is based on 170 days.
$8^{\text {th }}$ Grade Algebra I: The third course in the pathway combines the remaining Grade 8 CCSSM and all of the CCSSM for Algebra I identified by the PARCC Model Content Frameworks. The "Year at a Glance" on page 4 provides one sample way the standards might be bundled into units over the course of the school year (approximately 170 days).

## Considerations:

- This is a sample plan and is not the only pathway available to districts and/or schools. Other sample plans for accelerating middle school mathematics can be found in the Library on the LDE website under Year-Long Planning. Create pathways which fit the needs of the school and/or district being served.
- Define procedures at the district and/or school level to determine which students are eligible for (or are most likely to succeed in) an accelerated program. These procedures should be outlined for students, parents, and teachers.
- Create guidelines at the district and/or school level to decide whether students will continue in the accelerated pathway. Communicate this information to parents, students, and teachers.
- Districts and/or schools shall be mindful of the Carnegie Credit and Flexibility policy in Bulletin 741, § 2314 in order to award Carnegie credit for Algebra I.

Mathematics
Accelerated $6^{\text {th }}$ Grade Math - Year at a Glance (SAMPLE)

| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | Unit 8 | Unit 9 | Unit 10 | Unit 11 | Unit 12 | Unit 13 | Unit 14 | Unit 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  | Adding and Subtracting Rational Numbers |  |  |
| 10 days | 10 days | 10 days | 15 days | 12 days | 10 days | 15 days | 10 days | 12 days | 10 days | 15 days | 10 days | 10 days | 10 days | 10 days |
| Standards for Mathematical Practice included in all units |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.NS.B. 3 | 6.NS.B. 2 | 6.NS.A. 1 | 6.EE.A.2a | 6.EE.A. 1 | 6.G.A. 1 | 6.RP.A. 1 | 7.RP.A. 1 | 6.EE.A.2b | 6.SP.A. 1 | 6.NS.C. 5 | 6.NS.C.6b | 7.NS.A. 1 | 7.NS.A. 2 | 6.EE.C. 9 |
|  | 6.NS.B. 3 |  | 6.EE.B. 5 | 6.EE.A.2c | 6.G.A. 4 | 6.RP.A. 2 | 7.G.A. 1 | 6.EE.A. 3 | 6.SP.A. 2 | 6.NS.C.6a | 6.NS.C.6c | 7.NS.A. 3 | 7.NS.A. 3 | 6.RP.A.3a |
|  |  |  | 6.EE.B. 6 | 6.G.A. 2 |  | 6.RP.A. 3 |  | 6.EE.A. 4 | 6.SP.A. 3 | 6.NS.C.6c | 6.NS.C. 8 |  | 7.EE.B. 3 | 6.RP.A.3b |
|  |  |  | 6.EE.B. 7 |  |  |  |  | 6.NS.B. 4 | 6.SP.A. 4 | 6.NS.C. 7 | 6.G.A. 3 |  |  |  |
|  |  |  | 6.EE.B. 8 |  |  |  |  |  | 6.SP.A. 5 |  |  |  |  |  |
|  |  |  | 6.EE.C. 9 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Major Clusters |  |  |  |  | Supporting Clusters |  |  |  |  | Additional Clusters |  |  |  |  |
| RP - Ratio and Proportional Rea (6. 1, 2, 3) (7. 1) <br> NS - The Number System (6. 1, 5, 6, 7, 8) (7. 1, 2, 3) <br> EE - Expressions and Equations (6. 1, 2, 3, 4, 5, 6, 7, 8, 9) (7.3) |  |  |  |  | $\begin{aligned} & \text { G - Geometry } \\ & (6.1,2,3,4) \end{aligned}$ |  |  |  |  | NS - The <br> (6. 2, 3, 4 <br> G-Geom <br> (7. 1) <br> SP - Stati <br> (6. 1, 2, 3 | umber Sys <br> ry <br> cs and Pro <br> 5) | bility |  |  |

Sample plan adapted from plans created by Kyle Falting and Britton Kilpatrick (Universal Achievement, LLC)

Mathematics
Accelerated $7^{\text {th }}$ Grade Math - Year at a Glance (SAMPLE)


Mathematics $8^{\text {th }}$ Grade Algebra I - Year at a Glance (SAMPLE)

| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | Unit 8 | Unit 9 | Unit 10 | Unit 11 | Unit 12 | Unit 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 days | 15 days | 15 days | 15 days | 15 days | 15 days | 10 days | 15 days | 15 days | 12 days | 10 days | 10 days | 12 days |
| Standards for Mathematical Practice included in all units |  |  |  |  |  |  |  |  |  |  |  |  |
| 8.EE.A. 2 | 8.EE.C. 7 | 8.F.A. 1 | 8.EE.B. 5 | 8.EE.C. 8 | A-CED.A. 1 | A-SSE.A. 1 | A-SSE.A. 2 | F-IF.B. 5 | F-IF.B. 4 | A-REI.D. 11 | N-Q.A. 2 | S-ID.C. 7 |
| 8.G.B. 6 | A-CED.A. 1 | 8.F.A. 2 | 8.EE.B. 6 | A-CED.A. 3 | A-SSE.B.3c | A-APR.A. 1 | A-REI.A. 1 | F-IF.B. 6 | F-IF.B. 5 | F-IF.B. 4 | N-Q.A. 3 | S-ID.C. 8 |
| 8.G.B. 7 | A-CED.A. 4 | 8.F.B. 5 | 8.F.A. 3 | A-REI.C. 5 | F-LE.A. 1 |  | A-SSE.B.3a | A-SSE.B.3a | F-IF.B. 6 | F-IF.C.7b | S-ID.A. 1 | S-ID.C. 9 |
| 8.G.B. 8 | A-REI.B. 3 | F-IF.A. 1 | 8.F.B. 4 | A-REI.C. 6 | F-LE.A. 2 |  | A-SSE.B.3b | A-SSE.B.3b | F-IF.C.7b |  | S-ID.A. 2 | 8.SP.A. 1 |
| 8.NS.A. 2 | N-Q.A. 1 | F-IF.A. 2 | A-CED.A. 2 | A-REI.D. 12 | F-LE.A. 3 |  |  | A-APR.B. 3 | F-IF.C. 9 |  | S-ID.A. 3 | 8.SP.A. 2 |
| 8.G.C. 9 | N-RN.B. 3 | F-IF.A. 3 | A-REI.D. 10 |  | F-LE.B. 5 |  |  | F-IF.C.7a | F-BF.B. 3 |  |  | 8.SP.A. 3 |
|  |  | F-IF.B. 5 | A-REI.D. 12 |  |  |  |  | F-IF.C.8a |  |  |  | 8.SP.A. 4 |
|  |  | F-BF.A.1a | N-Q.A. 1 |  |  |  |  | F-IF.C. 9 |  |  |  | N-Q.A. 1 |
|  |  | F-BF.B. 3 | F-IF.C.7a |  |  |  |  | F-BF.B. 3 |  |  |  | S-ID.B. 5 |
|  |  |  |  |  |  |  |  |  |  |  |  | S-ID.B. 6 |
| Major Clusters Supporting Clus |  |  |  |  |  |  |  |  | Additional Clusters |  |  |  |
| 8.EE - Expressions and Equations ( $2,5,6,7,8$ ) <br> 8.F - Functions (1, 2, 3, 4, 5) <br> 8.G - Geometry ( $6,7,8$ ) <br> A-SSE - Seeing Structure in Expressions (1, 2) <br> A-APR - Arithmetic with Polynomials and Rational Exp (1) <br> A-CED - Creating Equations (1, 2, 3, 4) <br> A-REI - Reasoning with Equations and Inequalities (1, 3, 4, 5, 6 , <br> 10, 11, 12) <br> F-IF - Interpreting Functions (1, 2, 3, 4, 5, 6) <br> S-ID - Interpreting Categorical and Quantitative Data (7, 8, 9) |  |  |  | 8.NS - The Number System (2) <br> 8.SP - Statistics and Probability (1, 2, 3, 4) <br> N-Q - Quantities (1, 2, 3) <br> A-SSE - Seeing Structure in Expressions (3) <br> A-APR - Arithmetic with Polynomials and Rational Exp (3) <br> F-IF - Interpreting Functions (7, 8, 9) <br> F-BF - Building Functions (1) <br> F-LE - Linear, Quadratic, and Exponential Models (1, 2, 3, 5) <br> S-ID - Interpreting Categorical \& Quantitative Data $(5,6)$ |  |  |  |  | 8.G - Geometry (9) <br> N-RN - The Real Number System (3) <br> F-BF - Building Functions (3) <br> S-ID - Interpreting Categorical \& Quantitative Data (1, 2, 3) |  |  |  |

