**MATH STANDARDS: REQUIRED FLUENCIES AND CLUSTERS**

**6**

A PACIFIC UNION CONFERENCE CORRELATION OF NAD AND CCSS

Required fluencies are the skills to be mastered at this level. Clusters define where students and teachers should spend a large majority of their time in order to meet the expectations of the standards. Each fluency/cluster is linked to the corresponding NAD and Common Core Standard. The teacher will notice the NAD Standards are summarized and the Common Core standards provide an extensive explanation of the standards.

 **Color Key:** Major Clusters Supporting Clusters Additional Clusters

 Common Core State Standards (CCSS) North American Division Standards (NAD)

| **Fluencies / Clusters** | **Go Math /****Big Ideas** | **Assessment Dates** | **Notes****(Struggling students, additional resources & ideas, etc.)** |
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| **Required****Fluencies** | Multi-digit division.([NAD 6.NO.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS 6.NS.2](http://www.corestandards.org/Math/Content/6/NS/)) | 1.1, 1.6, 1.7, 1.8, 1.9 / Section 2.8, 3.1, 3.2, 3.3, 3.4, 3.5 |       |       |       |
| Multi-digit decimal operations.([NAD 6.NO.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS 6.NS.3](http://www.corestandards.org/Math/Content/6/NS/)) | 1.1, 1.6, 1.7, 1.8, 1.9 / Section 2.8, 3.1, 3.2, 3.3, 3.4, 3.5 |       |       |       |
| **NUMBERS AND OPERATIONS (NAD) / RATIOS AND PROPORTIONAL RELATIONSHIPS (CCSS)** |
| Understand ratio concepts and use ratio reasoning to solve problems.([NAD 6.NO.5](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS 6.RP.1-3](http://www.corestandards.org/Math/Content/6/RP)) | 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6 / Section 4.1, 4.2, 4.4, 4.5, 5.1, 5.2, 5.3 |       |       |       |
| **NUMBERS AND OPERATIONS (NAD) / THE NUMBER SYSTEM (CCSS)** |
| Compute fluently with multi-digit numbers and find common factors and multiples.([NAD 6.NO.1-2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS 6.NS.2-4](http://www.corestandards.org/Math/Content/6/NS)) | 1.1, 1.6, 1.7, 1.8, 1.9 / Section 2.8, 3.1, 3.2, 3.3, 3.4, 3.5 and 1.2, 1.3, 1.4, 1.5, 2.3, 2.4, 7.1, 7.2 / Section 1.1, 1.4 |       |       |       |
| Apply and extend previous understandings of numbers to the system of rational numbers. ([NAD 6.NO.3](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS 6.NS.5-8](http://www.corestandards.org/Math/Content/6/NS)) | 2.1, 2.2, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10 / Topic 1, 2, 3, 4 / Section 4.3 |       |       |       |
| Apply and extend previous understandings of multiplication and division to divide fractions by fractions.([NAD 6.NO.4](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS 6.NS.1](http://www.corestandards.org/Math/Content/6/NS)) | 2.5, 2.6, 2.7, 2.8, 2.9, 2.10 / Section 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7 |       |       |       |
| **OPERATIONS AND ALGEBRAIC THINKING (NAD) / EXPRESSIONS AND EQUATIONS (CCSS)** |
| Apply and extend previous understandings of arithmetic to algebraic expressions.([NAD 6.OAT.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf); [NAD 6.NO.2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf))([CCSS 6.EE.1-4](http://www.corestandards.org/Math/Content/6/EE)) | 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 10.1, 10.3, 10.5, 10.6, 1.07, 11.3, 11.4, 11.6 / Section 1.1, 1.2, 1.3, 1.4, 1.5, 6.1, 6.2, 6.3, 6.4, 7.1, 7.2, 7.3, 7.4, 8.1, 8.2, 8.3, 8.4 and 1.2, 1.3, 1.4, 1.5, 2.3, 2.4, 7.1, 7.2 / Section 1.1, 1.4 |       |       |       |
| Reason about and solve one-variable equations and inequalities.([NAD 6.OAT.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 6.EE.5-8](http://www.corestandards.org/Math/Content/6/EE)) | 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 10.1, 10.3, 10.5, 10.6, 1.07, 11.3, 11.4, 11.6 / Section 1.1, 1.2, 1.3, 1.4, 1.5, 6.1, 6.2, 6.3, 6.4, 7.1, 7.2, 7.3, 7.4, 8.1, 8.2, 8.3, 8.4 |       |       |       |
| Represent and analyze quantitative relationships between dependent and independent variables.([NAD 6.OAT.2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 6.EE.9](http://www.corestandards.org/Math/Content/6/EE)) | 9.1, 9.2, 9.3, 9.4, 9.5 / Section 9.1, 9.2, 9.3, 9.4, 9.5 |       |       |       |
| **GEOMETRY (NAD / CCSS)** |
| Solve real-world and mathematical problems involving area, surface area, and volume. ([NAD 6.GEO.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Geometry.pdf)) ([CCSS 6.G.1-4](http://www.corestandards.org/Math/Content/6/G)) | 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7 / Section 6.4, 7.5, 7.6, 7.6b / Topic 4 |       |       |       |
| **DATA ANALYSIS, STATISTICS, AND PROBABILITY (NAD) / STATISTICS AND PROBABILITY (CCSS)** |
| Develop understanding of statistical variability. ([NAD 6.DSP.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Data%20Analysis%20Statistics%20and%20Probability.pdf)) ([CCSS 6.SP.1-3](http://www.corestandards.org/Math/Content/6/SP)) | 12.1, 12.6, 13.1, 13.4, 13.6, 13.7, 13.8 / Section 5.4, 5.5, 5.6, 5.6b |       |       |       |
| Summarize and describe distributions.([NAD 6.DSP.2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Data%20Analysis%20Statistics%20and%20Probability.pdf)) ([CCSS 6.SP.4-5](http://www.corestandards.org/Math/Content/6/SP)) | 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 12.8, 13.1, 13.2, 13.3, 13.4, 13.5 / Section 5.4, 5.5, 5.6, 5.6b |       |       |       |