**MATH STANDARDS: REQUIRED FLUENCIES AND CLUSTERS**

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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 Correlation** | **Assessment Dates** | | **Notes**  **(Struggling students, additional resources & ideas, etc.)** |
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| **Required**  **Fluencies** | Add and subtract within 20 (Know single digit sums from memory).  ([NAD 2.OAT.2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 2.OA.2](http://www.corestandards.org/Math/Content/2/OA/)) | 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7 |  |  |  |
| Add and subtract within 100.  ([NAD 2.OAT.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 2.NBT.5](http://www.corestandards.org/Math/Content/2/NBT/)) | 3.8, 3.9, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.11 |  |  |  |
| **NUMBERS AND OPERATIONS (NAD) / NUMBER AND OPERATIONS IN BASE TEN (CCSS)** | | | | | |
| Understand place value.  ([NAD 2.NO.1-3](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS 2.NBT.1-4](http://www.corestandards.org/Math/Content/2/NBT/)) | | 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.11, 2.12, 4.4, 5.3 |  |  |  |
| Use place value understanding and properties of operations to add and subtract. ([NAD 2.NO.3-5](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf); [NAD 2.OAT.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf))  ([CCSS 2.NBT.5-9](http://www.corestandards.org/Math/Content/2/NBT/)) | | 2.1, 2.2, 2.3, 2.4, 2.5, 2.9, 2.10, 2.11, 2.12, 3.8, 3.9, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.11, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10 |  |  |  |
| **OPERATIONS AND ALGEBRAIC THINKING (NAD / CCSS)** | | | | | |
| Represent and solve problems involving addition and subtraction.  ([NAD 2.OAT.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 2.OA.1](http://www.corestandards.org/Math/Content/2/OA/)) | | 3.8, 3.9, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.11 |  |  |  |
| Add and subtract within 20.  ([NAD 2.OAT.2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 2.OA.2](http://www.corestandards.org/Math/Content/2/OA/)) | | 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7 |  |  |  |
| Work with equal groups of objects to gain foundations for multiplication.  ([NAD 2.OAT.3-4](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 2.OA.3-4](http://www.corestandards.org/Math/Content/2/OA/)) | | 1.1, 1.2, 3.10, 3.11 |  |  |  |
| **MEASUREMENT (NAD) / MEASUREMENT AND DATA (CCSS)** | | | | | |
| Measure and estimate lengths in standard units. ([NAD 2.M.1-3](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Measurement.pdf)) ([CCSS 2.MD.1-4](http://www.corestandards.org/Math/Content/2/MD/)) | | 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 9.1, 9.2, 9.3, 9.5, 9.6, 9.7 |  |  |  |
| Relate addition and subtraction to length.  ([NAD 2.M.4-5](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Measurement.pdf)) ([CCSS 2.MD.5-6](http://www.corestandards.org/Math/Content/2/MD/)) | | 8.5, 9.4 |  |  |  |
| Work with time and money.  ([NAD 2.M.6-7](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Measurement.pdf)) ([CCSS 2.MD.7-8](http://www.corestandards.org/Math/Content/2/MD/)) | | 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 7.10, 7.11 |  |  |  |
| **GEOMETRY (NAD / CCSS)** | | | | | |
| Reason with shapes and their attributes.  ([NAD 2.GEO.1-3](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Geometry.pdf)) ([CCSS 2.G.1-3](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Geometry.pdf)) | | 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9, 11.10 |  |  |  |
| **DATA ANALYSIS, STATISTICS, AND PROBABILITY (NAD) / MEASUREMENT AND DATA (CCSS)** | | | | | |
| Represent and interpret data.  ([NAD 2.DSP.1-2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Data%20Analysis%20Statistics%20and%20Probability.pdf)) ([CCSS 2.MD.9-10](http://www.corestandards.org/Math/Content/2/MD/)) | | 8.9, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6 |  |  |  |