**MATH STANDARDS: TEACHER RESOURCES**

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A PACIFIC UNION CONFERENCE CORRELATION OF NAD AND CCSS

This resource provides the teacher with identification of fluencies/clusters to be taught, vocabulary necessary for student comprehension, as well as internet, app and print resources to support implementation of the Mathematics Standards.

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

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

| **Teacher Resources** | | |
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| **REQUIRED FLUENCIES (Skills to be mastered at this level)** | | |
| Multiply and divide within 100 (Know single digit products from memory). ([NAD 3.OAT.2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 3.OA.7](http://www.corestandards.org/Math/Content/3/OA/)) | | |
| Add and subtract within 1,000. ([NAD 3.NO.2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS 3.NBT.2](http://www.corestandards.org/Math/Content/3/NBT/)) | | |
| **NUMBERS AND OPERATIONS (NAD) / NUMBER AND OPERATIONS IN BASE TEN (CCSS)** | | |
| Use place value understanding and properties of operations to perform multi-digit arithmetic. ([NAD 3.NO.1-2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS 3.NBT.1-3](http://www.corestandards.org/Math/Content/3/NBT/)) | | |
| **NUMBERS AND OPERATIONS (NAD) / NUMBER AND OPERATIONS – FRACTIONS (CCSS)** | | |
| Develop understanding of fractions as numbers. ([NAD 3.NO.3-4](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS 3.NF.1-3](http://www.corestandards.org/Math/Content/3/NF/)) | | |
| **OPERATIONS AND ALGEBRAIC THINKING (NAD / CCSS)** | | |
| Represent and solve problems involving multiplication and division. ([NAD 3.OAT.2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 3.OA.1-4](http://www.corestandards.org/Math/Content/3/OA/)) | | |
| Understand properties of multiplication and the relationship between multiplication and division.  ([NAD 3.OAT.1,4](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 8.OA.5-6](http://www.corestandards.org/Math/Content/3/OA/)) | | |
| Multiply and divide within 100. ([NAD 3.OAT.2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 3.OA.7](http://www.corestandards.org/Math/Content/3/OA/)) | | |
| Solve problems involving the four operations, and identify and explain patterns in arithmetic. ([NAD 3.OAT.5-7](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS 3.OA.8-9](http://www.corestandards.org/Math/Content/3/OA/)) | | |
| **MEASUREMENT (NAD) / MEASUREMENT AND DATA (CCSS)** | | |
| Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.  ([NAD 3.M.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Measurement.pdf)) ([CCSS 3.MD.1-2](http://www.corestandards.org/Math/Content/3/MD/)) | | |
| Geometric measurement: understand concepts of area and relate area to multiplication and addition.  ([NAD 3.M.4](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Measurement.pdf)) ([CCSS 3.MD.5-7](http://www.corestandards.org/Math/Content/3/MD/)) | | |
| Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures. ([NAD 3.M.5](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Measurement.pdf)) ([CCSS 3.MD.8](http://www.corestandards.org/Math/Content/3/MD/)) | | |
| **GEOMETRY (NAD / CCSS)** | | |
| Reason with shapes and their attributes. ([NAD 3.GEO.1-2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Geometry.pdf)) ([CCSS 3.G.1-2](http://www.corestandards.org/Math/Content/3/G/)) | | |
| **DATA ANALYSIS, STATISTICS, AND PROBABILITY (NAD) / MEASUREMENT AND DATA (CCSS)** | | |
| Represent and interpret data. ([NAD 3.DSP.1-2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Data%20Analysis%20Statistics%20and%20Probability.pdf)) ([CCSS 3.MD.3-4](http://www.corestandards.org/Math/Content/3/MD/)) | | |
| **MATH TARGET VOCABULARY** | | |
| area  arrays  attribute  comparison  denominator  division/divide  elapsed time  equivalent  factor  fraction  gram  interval | kilogram  liquid volume  liter  mass  metric  multiplication/multiply  numerator  parallel  parallelogram  partition  pattern  perimeter | perpendicular  plane figure  polygon  product  quadrilateral  reasonableness  rhombus  rounding  scale  side length  square unit (m, in, ft)  tilting |
| **INTERNET RESOURCES** | | |
| **Symbaloo** – Set up by the Pacific Union Conference, contains links to various Common Core resources including: general overview, teaching resources, assessment links, and parent resources; [www.symbaloo.com/mix/mathccresources-sda](http://www.symbaloo.com/mix/mathccresources-sda). | | |
| **Adapted Mind** – Is a website with sample lessons, videos, and unlimited math practice for Grades 1 to 6. Membership is $9.95/month and includes 5 students. 30 day free trial available; [www.adaptedmind.com](http://www.adaptedmind.com). | | |
| **CCSS Math** – Includes a collection of resources for every Common Core standard at every grade level. Each grade level’s page has links to an extensive variety of resources. Resources include blackline masters, instructional videos, and entire lesson plans; <https://ccssmath.org/?page_id=59>. | | |
| **Discovery Education Math Common Core Wiki** – Is a good resource page for teachers of all grade levels to become familiar with the common core and its learning targets. Includes “I Can” statements; <http://demathacademy.wikispaces.com/Page+1>. | | |
| **Engage NY** – Provides curriculum lessons for grades K-8 correlated to Common Core by grade level and topic, in addition to many other Common Core Resources filtered by subject, grade level and resource. Use the Common Core Hat dropdown menu to find Common Core Assessments with access to annotated test questions and answers for grades 3-8; [www.engageny.org/ccss-library](http://www.engageny.org/ccss-library). | | |
| **Howard County Wiki** – Is a website with teaching activities, live links to online videos, and a year overview pacing guide for grades K-6. Website includes challenge activities as well as remediation and assessment. Grades 7-8 are still under development; <https://smart.wikispaces.hcpss.org/Grade+3>. | | |
| **Illustrative Mathematics** – Provides sample problems and illustrations for each standard; [www.illustrativemathematics.org/standards/k8](http://www.illustrativemathematics.org/standards/k8). | | |
| **Inside Mathematics** – Includes resources categorized by grade level and domain. Resources include .pdf blackline copies of lesson plans & student sheets, videos, MARS tasks, and problems of the month. Particularly useful for gifted students. This site also includes information and videos about implementing the Common Core standards for mathematical practice; [www.insidemathematics.org/common-core-resources/mathematical-content-standards/standards-by-grade/3rd-grade](http://www.insidemathematics.org/common-core-resources/mathematical-content-standards/standards-by-grade/3rd-grade). | | |
| **Internet 4 Classrooms CCSS Home Page** – Is a website that has printables, assessments, links, homework help, training for teachers, and technology skills by grade level for each of the standards; [www.internet4classrooms.com/common\_core/index.htm](http://www.internet4classrooms.com/common_core/index.htm). | | |
| **K-5 Math Teaching Resources** – Provides examples of 3rd grade number activities aligned with the Common Core State Standards. All activities are suitable for use in Math Centers, small group or whole class settings and are designed to elicit a range of responses and provide opportunities for students to communicate their reasoning and mathematical thinking;  [www.k-5mathteachingresources.com/3rd-grade-number-activities.html](http://www.k-5mathteachingresources.com/3rd-grade-number-activities.html). | | |
| **Khan Academy** – Provides online practice activities for students by CCSS number. Includes explanation video for each standard; [www.khanacademy.org/commoncore/grade-3-G](http://www.khanacademy.org/commoncore/grade-3-G). | | |
| **Live Binders CCSS for Math** – Is a clearinghouse website with extensive resources for each CCSS standard, including links, downloads, reviews of resources such as mobile apps; [www.livebinders.com/play/play/187117](http://www.livebinders.com/play/play/187117). | | |
| **North Carolina Mathematics Wiki** – Gives a variety of resources for 3rd grade in relationship to the common core and more links to other sites; <http://maccss.ncdpi.wikispaces.net/Third+Grade>. | | |
| **Share my Lesson** – Has lessons organized by standard that were created by teachers for teachers. Join for free to access lessons; [www.sharemylesson.com/article.aspx?storyCode=50005574](http://www.sharemylesson.com/article.aspx?storyCode=50005574). | | |
| **Teaching Channel** – Provides hundreds of videos for instructional support including Common Core. Search by subject, grade level and/or topic; [www.teachingchannel.org/videos?page=1&categories=grades\_3,topics\_common-core&load=1](http://www.teachingchannel.org/videos?page=1&categories=grades_3,topics_common-core&load=1). | | |
| **APP RESOURCES** | | |
| ***CCMath3rd*** by Tony Baulos is an iPhone/iPad app for $2.99 designed to benefit students with 3rd Grade Math Skills by providing practice on each and every one of the 25 standards outlined in the Common Core. Kids are able to display mastery through a variety of activities ranging from Multiple-Choice, Fill-In, and True/False. | | |
| ***Common Core Library*** by WAGmob is a free iPhone/iPad app that lists all of the standards and includes links to math activities and assessments by grade level. Links to grade level activities are available for $1.99. | | |
| ***Hungry Fish***by Motion Math. Feed your fish and play with numbers! Make delicious sums by pinching two numbers together. Keep feeding your fish to win a level and unlock new colors and fins. The iPhone/iPad app for $1.99 includes 18 addition levels, with In-App purchase for another addition level and two subtraction and negative levels. | | |
| ***Math Bingo***by ABCya.comis an iPhone/iPad app that gets kids studying math facts without feeling like it’s a drill. For $0.99, engaging games, great graphics, and cute bugs teach kids addition, subtraction, multiplication and division. | | |
| ***Math Doodles*** by Carstens Studios Inc. is an iPad app that provides math practice involving concepts while strengthening strategy and problem solving skills. $2.99. Within the app, you may also purchase other apps that specifically challenge sums, squares, time, angles, and fractions as well as spatial visualization. | | |
| ***Splash Math – Grade 3***by StudyPad, Inc. is a fun and innovative way to practice math. With 16 chapters covering over 88+ math skills and an endless supply of problems, it is by far the most comprehensive math workbook in the app store for iPhone/iPad. It costs $9.99 but covers the Common Core standards, has cross-platform accessibility, insightful performance reports, and kids love it! In app option to purchase grade levels 1-5. | | |
| **PRINT RESOURCES** | | |
| ***CenterSOLUTIONS for the Common Core Task Cards*** reinforce the Common Core State Standards for language arts and math. Each write-on/wipe-away card contains critical thinking activities that promote active learning for Common Core success. The cards are perfect for centers and learning stations, individualized instruction or skill differentiation, math and reading journals, etc. One set of 100 task cards costs approximately $15.00. Available at: [www.carsondellosa.com/products/140335\_\_Task-Cards-Learning-Cards-140335](http://www.carsondellosa.com/products/140335__Task-Cards-Learning-Cards-140335). | | |
| ***The Common Core: Clarifying Expectations for Teachers & Students,***published by McGraw-Hill, has flipbooks for each grade level which include “I Can” statements, activities, and assessments for each standard. Each flipbook costs approximately $15.00. Available at: [www.mheonline.com/aaa/index.php?page=flipbooks&cur=MathPage](http://www.mheonline.com/aaa/index.php?page=flipbooks&cur=MathPage). | | |