**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)** |
| Add and subtract within 5. ([NAD K.OAT.2, 4](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS K.OA.5](http://www.corestandards.org/Math/Content/K/OA/)) |
| **NUMBERS AND OPERATIONS (NAD) / COUNTING AND CARDINALITY (CCSS)** |
| Know number names and the count sequence. ([NAD K.NO.1-2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS K.CC.1-3](http://www.corestandards.org/Math/Content/K/CC/)) |
| Count to tell the number of objects. ([NAD K.NO.3](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS K.CC.4-5](http://www.corestandards.org/Math/Content/K/CC/)) |
| Compare numbers. ([NAD K.NO.4](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS K.CC.6-7](http://www.corestandards.org/Math/Content/K/CC/)) |
| **NUMBERS AND OPERATIONS (NAD) / NUMBER AND OPERATIONS IN BASE TEN (CCSS)** |
| Work with numbers 11-19 to gain foundations for place value. ([NAD K.NO.5](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Numbers%20and%20Operations.pdf)) ([CCSS K.NBT.1](http://www.corestandards.org/Math/Content/K/NBT/)) |
| **OPERATIONS AND ALGEBRAIC THINKING (NAD / CCSS)** |
| Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.([NAD K.OAT.1-4](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Operations%20and%20Algebraic%20Thinking.pdf)) ([CCSS K.OA.1-5](http://www.corestandards.org/Math/Content/K/OA/)) |
| **MEASUREMENT (NAD) / MEASUREMENT AND DATA (CCSS)** |
| Describe and compare measurable attributes. ([NAD K.M.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Measurement.pdf)) ([CCSS K.MD.1-2](http://www.corestandards.org/Math/Content/K/MD/)) |
| **GEOMETRY (NAD / CCSS)** |
| Identify and describe shapes. ([NAD K.GEO.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Geometry.pdf)) ([CCSS K.G.1-3](http://www.corestandards.org/Math/Content/K/G/))  |
| Analyze, compare, create, and compose shapes. ([NAD K.GEO.2](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Geometry.pdf)) ([CCSS K.G.4-6](http://www.corestandards.org/Math/Content/K/G/))  |
| **DATA ANALYSIS, STATISTICS, AND PROBABILITY (NAD) / MEASUREMENT AND DATA (CCSS)** |
| Classify objects and count the number of objects in categories. ([NAD K.DSP.1](http://adventisteducation.org/downloads/pdf/Elementary%20Math%20Standards%20Data%20Analysis%20Statistics%20and%20Probability.pdf)) ([CCSS K.MD.3](http://www.corestandards.org/Math/Content/K/MD/)) |
| **MATH TARGET VOCABULARY** |
| addanglecircleconecubecylinderedgeequalfacefewerflatgreaterheavy | hexagon joinleftoverlengthlessless oflonglongermoremore ofnumber words (zero-one hundred)positional wordsrectangle | same amountsame amount as separateshortersidesolidspheresquaresubtracttallertotal |
| **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). |
| **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=41>. |
| **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](http://demathacademy.wikispaces.com/Page%2B1). |
| **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/Kindergarten+Common+Core](https://smart.wikispaces.hcpss.org/Kindergarten%2BCommon%2BCore). |
| **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/kindergarten](http://www.insidemathematics.org/common-core-resources/mathematical-content-standards/standards-by-grade/kindergarten). |
| **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 Kindergarten 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/kindergarten-math-activities.html](http://www.k-5mathteachingresources.com/kindergarten-math-activities.html). |
| **Khan Academy** – Provides online practice activities for students by CCSS number. Includes explanation video for each standard; [www.khanacademy.org/commoncore/grade-K-CC](http://www.khanacademy.org/commoncore/grade-K-CC). |
| **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 Kindergarten in relationship to the common core and more links to other sites; <http://maccss.ncdpi.wikispaces.net/Kindergarten>. |
| **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=50005559](http://www.sharemylesson.com/article.aspx?storyCode=50005559). |
| **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\_k,topics\_common-core&load=1](http://www.teachingchannel.org/videos?page=1&categories=grades_k,topics_common-core&load=1). |
| **APP RESOURCES** |
| ***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. |
| ***Splash Math – Kindergarten*** by StudyPad, Inc. invites your kids to the fun world of animals. Loaded with HD graphics and entertaining sounds, kids love earning prizes as they learn math concepts in a jungle full of things to count. Set goals for the kids and receive progress reports by email. Endless problems allow the kids to practice math for the whole school year, $9.99 for iPhone/iPad. |
| **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/140332\_\_Task-Cards-Learning-Cards-140332](http://www.carsondellosa.com/products/140332__Task-Cards-Learning-Cards-140332). |
| ***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). |