#### NCSC Alternate Assessments and Instructional Materials Based on Common Core State Standards

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#### National Center and State Collaborative

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# Background

#### **Alternate Assessment Background**

- States are required to have assessments for accountability purposes in math and English Language Arts for grades 3-8 and once in high school
- There are alternate assessments for students who have the most significant cognitive disabilities
- These assessments are linked to grade level content but have different expectations for achievement
- They are referred to as alternate assessments on alternate academic achievement standards (AA-AAS)



# **NCSC Background**

- In 2010, the U.S. Department of Education awarded the National Center and State Collaborative (NCSC) a grant to develop a new AA-AAS in math and ELA by the 2014-15 school year.\*
- 24 states and five national centers\* are working together in NCSC. <u>http://www.ncscpartners.org/</u>
- NCSC is also developing instructional resources based on Common Core State Standards (CCSS) that can be used in <u>any</u> state <u>https://wiki.ncscpartners.org</u> (site is available now with materials gradually added)
   \*States may have different implementation timelines for the NCSC assessment

### **NCSC Member "States"**

- Original states are Arizona, Connecticut, District of Columbia, Florida, Indiana, Louisiana, Pacific Assessment Consortium (PAC-6), Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, and Wyoming
- States that joined later are Arkansas, California, Delaware, Idaho, Maine, Maryland, Montana, New Mexico, New York, Oregon, and the US Virgin Islands



#### Importance of NCSC to Attorneys, Advocates and Parents

- NCSC's resources will help educators provide FAPE in the LRE with true access to the grade level curriculum (e.g. sample UDL lessons for all students)
- These instructional resources are available and useful in any state, regardless of whether the state implements the NCSC assessments or the Common Core State Standards
- Attorneys, advocates and parents can help ensure that educators and families are informed about the assessments and the materials

#### **College and Career Readiness**

# Some Students with Intellectual Disabilities Are Going To College

- The Higher Education Opportunity Act (2008) includes two major provisions that may facilitate entry into higher education for students with an intellectual disability.
  - Implementation of model demonstration sites
  - Availability of financial aid if enrolled
- See <u>www.thinkcollege.net</u> for more information on the variety of programs that have been developed (many before 2008)



# Cross walking College and Career Readiness

- All kids
  - Key Cognitive Strategies
    - Problem solving, reasoning, analysis, interpretation, critical thinking
  - Key Content
    - Reading, Math, Science, Social Studies
  - Academic Behaviors
    - Self monitoring, time management, using information resources, social interaction skills, working in groups
  - Contextual Skills and Awareness
    - Seeking help with admissions, procedures, career development
      - » (Conley, 2007)

- Students with Significant Cognitive Disabilities
  - Academic Access
    - -/Career Development
    - Social Network
  - Self Determination
    - Integration with College Systems & Practices

 Coordination and Collaboration

### **College and Career Readiness**

Important for ALL students including those with significant cognitive disabilities:

- Communicative competence
- Social skills to function well in small groups
- Independent and team work skills
- Problem Solving
- Reading/writing/math
- Skills for identifying and requesting supports



# **College and Career Readiness Includes Community Readiness**

Without college and career ready skills, students with significant cognitive disabilities will likely:

- need greater supports throughout their life
- live and work in more segregated environments
- have more difficulty finding/keeping employment
- have more difficulty learning about and engaging in community activities
- be easier to victimize



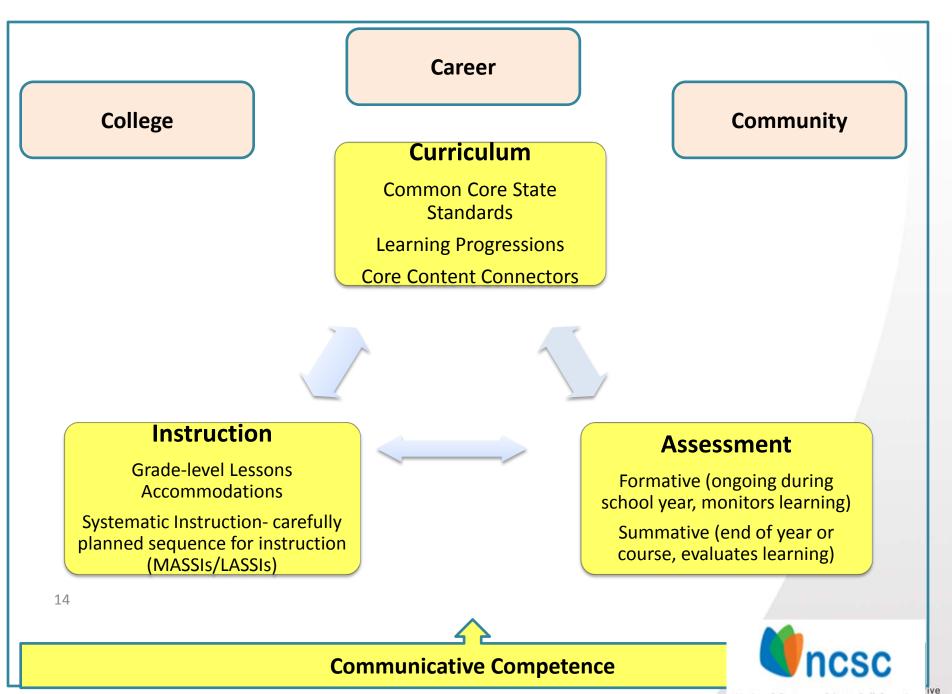
# **NCSC Model**

# **NCSC Philosophy**

A well-designed summative assessment alone is insufficient for college, career and community readiness.

To achieve these goals, an Alternate Assessment system requires:

- Curricular & instructional framework
- Teacher resources and professional development
- Communicative Competence as a priority



#### **Quality Indicators for Instructional Resources**

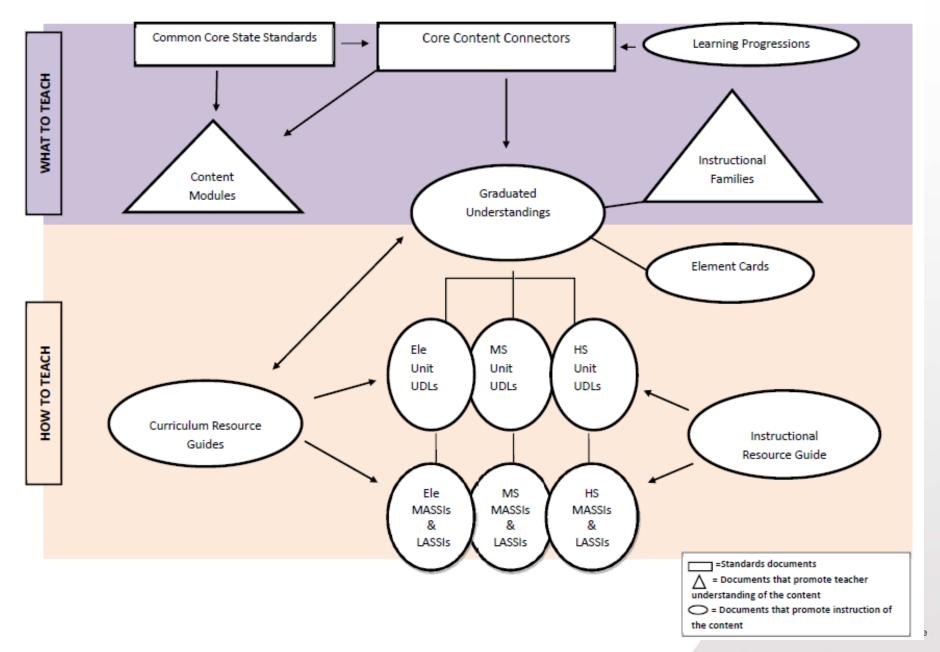
- Promote Common Core State Standards;
- Set high expectations for all students;
- Apply principles of Universal Design for Learning (UDL); and
- Apply evidence-based teaching practices for students with the most significant cognitive disabilities.





#### SCHEMA for Common Core State Standards Resources

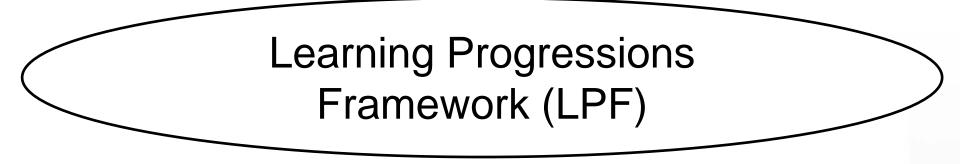
NCSC Instructional Resources



#### **Common Core State Standards-NCSC**

- Students with significant cognitive disabilities benefit from the national movement toward the CCSS and college and career readiness.
- NCSC Curriculum and Instruction resources provide evidenced-based strategies and tools to support how to teach the CCSS to students with significant cognitive disabilities.





- Shows the steps that students typically take to get deeper, broader, more sophisticated understanding in a content area (e.g. math)
- These steps (learning targets) are the essential core knowledge and skills (sometimes called the "big ideas") that students need as they move through the grades



# Core Content Connectors (CCCs)

- Based on the learning progressions framework (LPF) and the CCSS
- Focus on the knowledge and skills from CCSS needed at each grade to promote success in later grades, but breaks them into smaller pieces
- Operate as a <u>starting point</u> for instruction based on the CCSS



# **CCC Example**

**CCSS**- Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.

**CCC**- Ask and answer questions\* about key details in a text.

\*Instead of an oral or written response, some students may use picture symbols, character figures and props, etc.



#### **Learning Progression Framework** Area Find area of quadrilaterals Find area of plane figures and **Curriculum Application** surface area of solid figures Graphing Lesson 5 (quadrilaterals) ✓ Locate the x and y axis $\checkmark$ Describe the changes in surface Using CCCs in a lesson for broad range of learners on a graph area, area, and volume when the Locate points on a graph figure is changed in some way Use order pairs to graph (e.g., scale drawings) CSC given points **Solve Linear Equations** National Center and State Collaborative ✓ Solve a linear equation to find a missing Fractions attribute given the area, surface area, or **Ratio & Proportion** Partition circles and volume and the other attribute ✓ Solve problems that use rectangles into two and four proportional reasoning with equal parts ratios of length and area Partition shapes into equal Apply formulas $\checkmark$ Describe the changes in parts with equal area Solve word problems surface area. area. and $\checkmark$ using perimeter and area volume when the figure is where changes occur to changed in some way (e.g., scale drawings) the dimensions of a figure Area $\checkmark$ Use addition to find the perimeter of a rectangle ✓ Use tiling and multiplication CCCs = that connect skills **Basic operations** to determine area Addition Subtraction, Multiplication Division CCCs=Sub-skills that develop Part to Whole conceptual understanding ✓ Partition circles and rectangles into two equal parts

*CCCs* =Prerequisite knowledge or emergent skills

#### **Content Modules**

- Provide explanations and examples of the concepts contained in the CCSS that may be difficult to teach or unfamiliar to special education teachers;
- Provide potential adaptations and modifications to consider



#### Curriculum Resource (CR) Guide

- Provides guidance for teaching the CCSS to students with the most significant cognitive disabilities;
- Provides examples for differentiating instruction for a wide range of students in multiple grade levels; and
- Describes the necessary skills and knowledge students need to mastery the content.



# **UDL incorporated in ELA CR Guide**

#### 6. How Do I Make Instruction on "Reading Informational Texts" Accessible to ALL the Students I Teach?

#### 6.1 <u>Teach Prerequisites Concurrently While Teaching Skills Related to Reading</u> <u>Informational Texts</u>: Remember that students can continue to learn basic literacy skills in the context of this grade level content.

Basic literacy skills that can be worked on as a part of a lesson relating to informational text:

- Answering literal recall questions
- Making inferences that are relevant and meaningful, possible not related to written text
- Determining the main idea or the most important events in a personally relevant stories (e.g., auto-biographies)
- Differentiating between nonfiction and fiction texts
- Identifying author's purpose
- Vocabulary acquisition
- Using visual cues to find important information (e.g., highlighting or added visuals)





#### **Example of UDL Table in ELA CR Guide**

# 6.2 Incorporate Universal Design for Learning (UDL) in planning, and provide for additional Differentiated Instruction when Teaching Reading Informational Texts

| Some examples of options for teaching vocabulary and acquisition skills to students who may present instructional challenges due to: |  |   |  |   |  |  |
|--|--|---|--|---|--|--|
|  | Sensory Differences<br>such as Blindness,<br>Visual Impairment,<br>Deafness, or<br>Deaf/Blindness  | Physical Disability or<br>Motor Differences<br>(such as weakness or<br>motor planning<br>difficulty)  | Extremely limited<br>evidence of experience/<br>skill or motivation/<br>attention  | Limited or no speech  |  |  |
| Representation   | Use a talking device such<br>as an avatar; use large<br>print text, raised text or<br>Braille; use objects and<br>images to represent<br>vocabulary words and<br>answers to questions;<br>use online dictionaries<br>that will pronounce the<br>words and read the<br>definitions aloud; use<br>matching picture cards<br>with words and their<br>meanings; add sound<br>effects when appropriate<br>(e.g., sound of a whale,<br>busy city streets, a<br>tornado); preteach basic<br>concepts of a topic using<br>objects; color photos<br>related to topics;<br>Smartboard can be used<br>during instruction. | Student scans an array<br>of possible options and<br>uses a switch to select<br>the correct vocabulary<br>word or answer to<br>questions; use computer<br>representation of word<br>meanings that can be<br>manipulated with switch;<br>place response options<br>on a slant board or eye<br>gaze board; create a<br>vocabulary matching<br>exercise in the classroom<br>that the student can walk<br>or ride on in wheelchair<br>to find the matching<br>words and meanings<br>(this can include picture<br>clues or objects). | Use motivating objects<br>(e.g., pizza, coloring<br>markers in a box, piece<br>of a Lego set) to<br>incorporate key<br>vocabulary and details<br>from text; incorporate<br>technology including<br>computer<br>representations, videos,<br>animations, and talking<br>avatar; allow students to<br>self-select topics for<br>study; use You Tube that<br>is related to instruction;<br>Smartboard can be used<br>during instruction. | Have student use online<br>dictionary to pronounce<br>and define words; use<br>online visual dictionary to<br>increase vocabulary;<br>students can use one to<br>one correspondence to<br>match words or objects<br>with definitions; preteach<br>vocabulary using AAC<br>devices; highlight<br>vocabulary words within<br>the context of the print,<br>keep to one vocabulary<br>word per page and keep<br>an AAC device with<br>matching word with the<br>text; use an iPad during<br>instruction.<br>*Suggestions from other<br>columns may be<br>applicable here. |  |  |

# **UDL incorporated in Math CR Guide**

6. How Do I Make Instruction on "Equations" Accessible to ALL the Students I Teach?

6.1 <u>Teach Prerequisites and Basic Numeracy Skills Concurrently</u>: Remember that students can continue to learn basic numeracy skills in the context of this grade level content.

Basic numeracy skills that can be worked on as a part of a lesson relating to equations:

- Number identification
- Equal and/or same
- Symbol identification (+, -, =, x, ÷)
- Addition and subtraction
- Creating sets





#### **Example of UDL Table in Math CR Guide**

#### 6.2b Incorporate Universal Design for Learning (UDL in planning, and provide for additional differentiated Instruction when teaching Equations.

|                            | Sensory Differences such as<br>Blindness, Visual Impairment,<br>Deafness, or<br>Deaf/Blindness   | Physical Disability or Motor<br>Differences (such as<br>weakness or motor<br>planning difficulty)   | Extremely limited evidence of<br>experience/skill or<br>motivation/attention.   | Lack of or extremely<br>limited use of<br>speech.   |
|----------------------------|--|---|---|---|
| Options for Representation | Provide auditory options<br>-Talking calculator when solving<br>equations;<br>-Text-to-speech software or voice<br>recordings to read aloud story<br>problems<br>-Single message sequence voice-<br>output devices to count aloud<br>-Captioning software that presents<br>auditory information visually<br>Provide tactile options:<br>-Object cues, using miniature<br>objects or other tangible symbols<br>to assist with problem<br>comprehension and operations<br>-Tactile equation mat<br>-Create numbers and symbols out<br>of tactile materials such as<br>sandpaper or wikki stix<br>Provide visual and manipulative<br>options to scaffold<br>representation of concepts: | Reduce Physical Effort<br>-When reading word<br>problems, student can scan<br>array of key math operation<br>words and select correct<br>key word and operation for<br>equation<br>- Place equations and<br>graphic organizers on slant<br>board or eye gaze board<br>-Display flip chart,<br>interactive white board or<br>other teaching materials at<br>student eye level<br>-Utilize a switch instead of a<br>computer mouse or<br>software that allows the<br>mouse to be controlled with<br>the students' head rather<br>than their hands | Illustrate through multiple media         -Utilize interactive whiteboard         -Incorporate interactive websites         that provide nonlinguistic tools for         exploring math concepts :         Illuminations         http://illuminations.nctm.org/ActivitySearch.aspx         Math Open Reference         http://www.mathopenref.com/         There are many resources listed         here:         http://www.udkenter.org/implementation/examples         - Use virtual manipulatives and         technology to show equations         -Incorporate computer         representations, videos, and         animations | Provide customized<br>display of<br>information<br>-Consistent model b<br>utilizing modes of<br>communication used<br>by students (point t<br>symbols representin<br>concepts, operation<br>-Teacher model<br>competent use of<br>AAC during<br>instruction |

#### **Curriculum Resource Guides**

| Grade 8  |   |  |
|--|---|--|
| CCC  | Performance Example   | Essential Understandings   |
| Measurement:<br>8.ME.1e2:<br>Describe the<br>changes in<br>surface area,<br>area, and<br>volume when<br>the figure in<br>changed in<br>some way<br>(e.g., scale<br>drawings) | "Shelly's bedroom has a closet where she keeps all her clothes. Here is a picture of her closet. Shelly's closet was 3 feet by 4 feet. She used a formula to calculate area. The formula for area is area equals length times width. You can also figure out area by counting the boxes."<br>4<br>3<br>"Her closet is too small, so her Dad built an addition and made it bigger. This shows Shelly's new closet. Her new closet is 4 feet by 8 feet. How much bigger is Shelly's | Recognize how the space inside a figure increases when the sides are lengthened. |
|  | A New Closet<br>New Closet  |  |



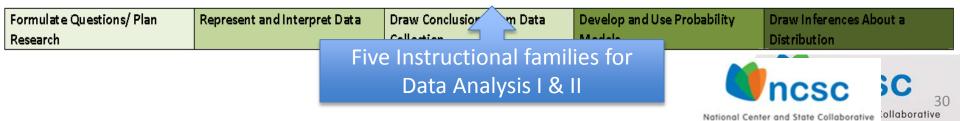




- Put related CCCs into families
- Provides educators with different views of how instructional families develop and interact across all the grades and across a grade band (e.g. Elementary School)



|  |                       |                 |                |            | -   |                      | G                   | rade-spa                    | n Learning Targets                                       |
|--|-----------------------|-----------------|----------------|------------|---|----------------------|---------------------|-----------------------------|--|
|  | (K-4) Element         | tary School Lea | rning Targets  |            | (5-8) Middle S                                |                      |                     |                             |  |
| E.DPS-1 Gather and interpret data to answer questions related to a |                       |                 |                |            | M.DPS-1 Design investigations Trom the Le     |                      |                     | earning Progression         |  |
| particular/sir   | 2                     |                 |                |            | about multiple populations.                   |                      | ameworks            |                             |  |
|  | te questions, g       |                 |                |            | Formulate questions, gather                   |                      |                     | nd statistical              |  |
|  | and describe vo       |                 |                |            | Compare populations by analyzing distribution |                      |                     | free propability principles |  |
| · ·  | shapes of dist.       | nbutions and i  | measures of ce | entral     | variability a                                 | nd measures of cen   | tral tendency.      |                             | san utions.  |
| tendency   | /.<br>duct simple pro | hahilitu ovnor  | imonts and ah  | aractorizo | M DDS-2 Conduc                                | t probability experi | imonte:             |                             | H.DPS-2. Use the rules of probability to interpret data, |
|  | s in words, dia       | , ,             |                | u/uccenze  |   | idom samples to ch   |                     | ituin estimates             | develop explanations, and address real-world problems    |
|  |                       | grains) or main | choal).        |            | and predictic                                 |                      |                     | ny ni cominateo             |  |
|  |                       |                 |                |            |   | build models of the  | e association betwe | en two                      |  |
|  |                       |                 |                |            | variables.                                    |                      |                     |                             |  |
| к  | Grade 1               | Grade 2         | Grade 3        | Grade 4    | Grade 5                                       | Grade 6              | Grade 7             | Grade 8                     | HS   |
|  |                       |                 |                |            |   |                      |                     |                             |  |
|  |                       |                 |                |            |   |                      |                     |                             |  |
|  |                       |                 |                |            |   |                      |                     | 1                           |  |
|  |                       |                 |                |            |   |                      |                     |                             |  |
|  |                       |                 |                |            | Distributi                                    | on of                | _                   |                             |  |
|  |                       |                 |                |            |   |                      |                     |                             |  |
|  |                       |                 |                | Insti      | ructional                                     | Families             |                     |                             |  |
|  | and the number of     |                 |                |            |   |                      |                     |                             |  |
|  |                       |                 |                |            |   |                      |                     |                             |  |
| related CCCs by grade 🛌  |                       |                 |                |            |   |                      |                     |                             |  |
|  |                       |                 |                |            |   |                      |                     |                             |  |
|  |                       |                 |                |            |   |                      |                     |                             |  |
|  |                       |                 |                |            |   |                      |                     |                             |  |
|  |                       |                 |                |            |   |                      |                     |                             |  |



| <u>Overview of CCCs</u> : Data Analysis I:  | Crada  | chan Loopping Targe   | from   |  |
|---|--|---|--|--|
|   | ()(=21   | -span Learning Targe  |  |  |
| E.DPS-1 Gather and interpret data to answer quest   | ions related to a particular/sma   | e Learning Progressio   | on   |  |
| • Formulate questions, gather data, and build re  | presentations;   | Frameworks  |  |  |
| Identify and describe variation in data, and des  | cribe and compare shapes of distributions and measures of ce   | nurur naency.   |  |  |
| Formulate Questions/ Plan Research  | Represent and Interpret Data   | Draw Conclusions from Data Collection   |  |  |
| Grades K- 1   | Grade 2  | Grade 3   | Grade 4  |  |
| K.CC.5  | nstructional Families for Data   |   | 4.DPS.1f2 Develop questions, make a plan for data<br>collection<br><i>No CCSS linked</i>                                   |  |
| 1.DPS.1a2Select questions that ask about "How<br>many" and represent up to three categories that can<br>be concretely represented<br>1.MD.4               | 2.DPS.1a6 Identify up to 3 categories resulting from a selected<br>question<br>1.MD.4  | 3.DPS.1g1 Collect data, organize into picture or<br>bar graph<br>3.MD.3   | 4.DPS.1g3 Collect data, organize in graph (e.g.<br>picture graph, line plot, bar graph)<br>3.MD.3                          |  |
| 1.DPS.1a3 Identify 2 categories resulting from a<br>selected question<br>1.MD.4   | 2.DPS.1a7 Analyze data by sorting into categories established by each question 2.MD.10   |   | repeated) Select the appropriate<br>sthe data representations<br>picture, bar, line plots)                                 |  |
| 1.DPS.1a4 Analyze data by sorting into 2 categories;<br>answer questions about the total number of data<br>points and how many in each category<br>1.MD.4 | 2.DPS.1a8 Interpret the number of points in each category<br>No CCSS linked<br>2.DPS.1c2 Organize data by representing categorical data on a<br>pictorial graph or bar graph<br>2.MD.10          | 3.DPS.1i1<br>Select the appropriate statement that<br>describes the data representations based on a<br>given graph (picture, bar, line plots) | describes the most frequent or the least frequent<br>data point using a line plot, picture graph, or bar<br>graph<br>4.G.1 |  |
| 1.DPS.1c1 Using a picture graph, represent each<br>object/person counted on the graph (1:1<br>correspondened for a<br>1.MD.4                              | Distribution of CCCs by  | 3.DPS.1k1 Apply results of data to a real world   | 4.DPS.1k2 Apply results of data to a real world situation<br>3.MD.4  |  |
| 1.DPS.1d1 Interpret a pro-<br>questions about 1.MD.4<br>1.DPS.1e1 Compare the values of the 2 categories of<br>data in terms of more or less<br>1.MD.4    | 2.MD.9<br>2.MD.10<br>2.DPS.1e2 Compare the information shown in a bar graph or<br>picturegraph with up to 4 categories. Solve simple comparisons<br>of how many more or how many less<br>2.MD.10 |   | National Center and State Collaborative  |  |

#### Graduated Understandings: Element Cards

- Provide a wide range of suggested instructional strategies and supports to promote instruction for students with diverse learning needs-including those without prior knowledge
- Include "Essential Understandings," which describe the necessary knowledge and skills to successfully address the select CCC
- Element cards are already written for many CCCs but are meant to serve as models and to be used together with other NCSC instructional resources

| CCSS: :   | 1.MD.4 Organ  | nize, re | epresent, and interpret data with up to       | three categories; ask and    |  |  |  |  |  |
|---|---|----------|---|------------------------------|--|--|--|--|--|
| answer questions about the total number of data points, how many in each category, and how                |   |          |   |                              |  |  |  |  |  |
| many more or less are in one category than in another   |   |          |   |                              |  |  |  |  |  |
| CCC:  | 1.DPS.1e1   | Comp     | pare the values of the 2 categories of data i | n terms of more or less      |  |  |  |  |  |
| Strand  | : Data,   |          | Family: Draw Condusions from Data (           | Collection                   |  |  |  |  |  |
| Probab  | ility and   |          |   |                              |  |  |  |  |  |
| Statisti  | cs  |          |   |                              |  |  |  |  |  |
| Progre  | ss Indicator:   | E.DPS    | .1e describing and comparing data an          | d beginning to identify what |  |  |  |  |  |
| _   |   |          | w (e.g., bar graphs, line plots, picture      |                              |  |  |  |  |  |
| S   | Concrete Ur   | nderst   | andings:                                      | Representation:              |  |  |  |  |  |
| Essential<br>Understandings   | • Cani  | identi   | fygroups of objects in terms of more          | Identify and use the         |  |  |  |  |  |
| Essential<br>Jerstandi  | andl  |          |   | symbols for <, >, =          |  |  |  |  |  |
| sse<br>erst   | • Can i   | match    | numbers from a graph to numbers               |                              |  |  |  |  |  |
| ΨĎ  | ona   | numb     | per line                                      |                              |  |  |  |  |  |
| <b>D</b>  |   |          |   |                              |  |  |  |  |  |
| Sugges  | ted Instruction   | onal S   | trategies:                                    |                              |  |  |  |  |  |
| •   | Teach the co  | ncep     | t of more or less using example, non-e        | xample; apply to data on     |  |  |  |  |  |
|   | graph   |          |   |                              |  |  |  |  |  |
| <ul> <li>Use or create a graph that provides a visual of the values in each category such as a</li> </ul> |   |          |   |                              |  |  |  |  |  |
| bar graph   |   |          |   |                              |  |  |  |  |  |
| •   | Teach the co  | ncep     | t of more or less using a number line         |                              |  |  |  |  |  |
| Suppor  | rts and Scaffo  | olds:    |   |                              |  |  |  |  |  |
| Number line     Incsc   |   |          |   |                              |  |  |  |  |  |
| •   | Snap cubes to create a concrete bar graph     National Center and State Collaborative   |          |   |                              |  |  |  |  |  |
|   | and the second se |          |   |                              |  |  |  |  |  |

# **UDL Instructional Units**

Universal Design for Learning (UDL) requires that students be provided with multiple ways to get information, multiple ways to demonstrate their knowledge and skills, and multiple ways to be engaged in learning <u>www.udlcenter.org</u> A UDL Unit:

- Includes general education lessons using UDL to provide access to the content for all students and promote inclusive instruction
- Provides additional considerations for students who are emerging readers and emerging communicators

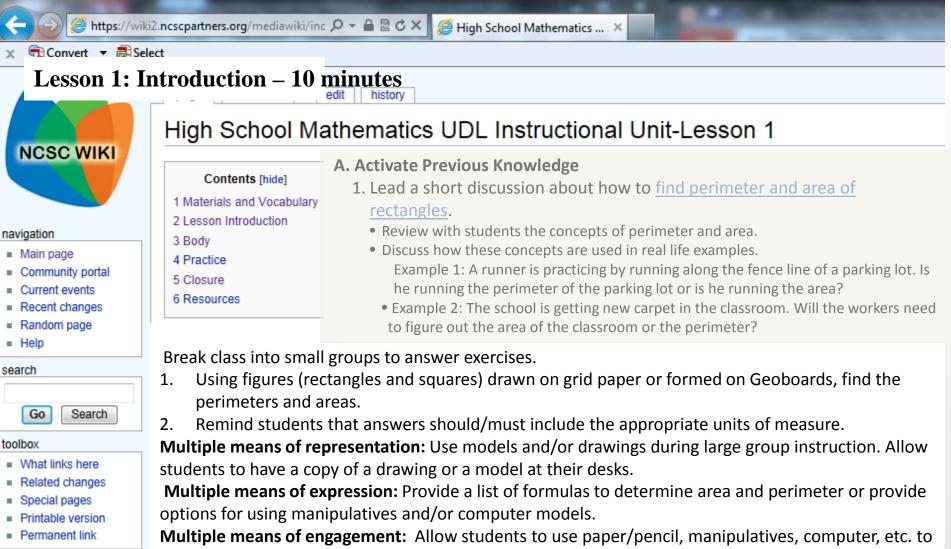


# **UDL Instructional Unit**

- Links to additional, intensive interventions that certain students may need for learning critical knowledge and skills (MASSIs and LASSIs).
- Provides data sheets and skills tests
- Contains:
  - definitions of key vocabulary,
  - lesson objectives,
  - essential questions and materials, and
  - lesson components







complete exercises.

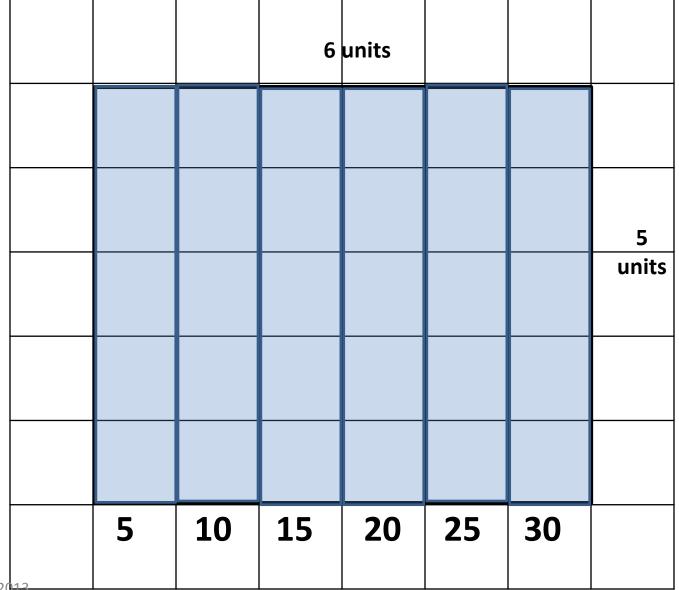


National Center and State Collaborative

Find the perimeter of the figure below.

6u + 6u + 5u + 5u = **22u** 

|      |    | 6 units |    |    |    |    |                |
|------|----|---------|----|----|----|----|----------------|
|      | 1  | 2       | 3  | 4  | 5  | 6  |                |
| 22   |    |         |    |    |    |    | 7              |
| 21   |    |         |    |    |    |    | 8 <sub>5</sub> |
| 20   |    |         |    |    |    |    | units<br>9     |
| 19   |    |         |    |    |    |    | 10             |
| 18   |    |         |    |    |    |    | 11             |
| 2013 | 17 | 16      | 15 | 14 | 13 | 12 |                |



#### Additional Considerations for Emerging Readers and Emerging Communicators

- 1. Provide picture and/or tactile representations of relevant vocabulary, paired with the written word, each time a salient concept/vocabulary word for rectangle, area, and perimeter is mentioned during the presentation or discussion, as well as the meanings of each word.
- 2. Create math journals to record vocabulary, formulas, and notes.
- 3. Provide the formulas for area and perimeter as the concepts of each are discussed.
- 4. During discussion, provide picture representation of real world uses for area and perimeter.
- 5. As students work in small groups or pairs, ensure they have a means for gaining their group members' or partner's attention and a means for contributing to the discussion.
- 6. Students may use their math journals or a graphic organizer to collect/store information gathered during group.
- 7. To find area and perimeter, use grid paper, count/mark/tally each unit along the length of the figure to determine length and count/mark/tally each unit along the width of the figure to determine the width.
- 8. Use the formulas to determine area and perimeter.
  - A list of formulas may be used by the student as a reference.
- 9. Student may be presented with manipulatives of a unit and the rectangle drawn on grid paper.
  - Students determine area and perimeter by placing the manipulative units on each unit around the rectangle on the grid paper to demonstrate perimeter as well as within the rectangle to demonstrate area.
  - Using manipulatives may be demonstrated electronically, using a computer program or PowerPoint, to count units virtually to determine area and perimeter.

See Resources: See PowerPoint, Slides 1 and 2.

10.As answers are reviewed, be sure to reference the appropriate units of measure. For example, if students determine the perimeter of a 3inch by 4inch figure is 14, reply, "That is correct. It is 14 inches." If they determine the area is 12, reply, "That is correct. It is 12 inches square."

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- Remind students to record the appropriate unit.
- Model how to write the appropriate units.
- Present students with an alternative representation of unit to record in their math journals or graphic organizers.

**Important Note for Communicators Considered Pre-Symbolic:** Be sure students have a way to attain peer attention as well as to share and receive information. Limit measurements to one type: standard or metric unit.

Math/ Language Activities for Scripted Systematic Instruction (MASSIs and LASSIs)

- Incorporates evidence-based instruction from research, including faded prompting
- Provides teaching scripts for teachers who may not have a lot of training in systematic instruction, which uses carefully planned steps
- Can be embedded in general education lessons with a mixed ability group OR taught to a small group or an individual student.
- Are to be used with UDL Units-NOT on their own



## **Professional Development**

- Trainers hired by NCSC worked with state education leaders and Communities of Practice to get feedback and develop PD
- Many resources for PD will be available including videos, webinars and PD modules



#### Assessment

#### **Assessment Participation Guidelines**

- There will be a NCSC AA-AAS in math and one in ELA, which includes both reading and writing, for grades 3-8 and 11
- AA-AAS is for students with pervasive significant cognitive disabilities whose IEP goals and instruction is based on CCSS and who need extensive direct individualized instruction and substantial supports
- The IEP team will determine, on an individual basis, whether a student will take the NCSC AA-AAS If a student doesn't meet the AA-AAS criteria for <u>both</u> math and ELA, he/she will usually not be eligible either AA-AAS.

#### Format

- Approximately 30 items for each subject
- These 30 items will cover approximately 10 CCCs
- Most of the assessment items ask the student to select the correct response (e.g. multiple choice).
- Some items will require the student to construct a response (e.g. write a short answer or use an alternate way to respond e.g. picture symbols)



## Length of Assessment

- Expected testing time will be approximately 1.5 2 hours for each assessment (math and ELA.)
- Each student's assessment can be completed in multiple smaller time slots over a 2 month period to meet the student's needs



# Relationship of Items to Grade Level Content

- About 75% of the assessment items are closely linked to the grade-level content.
- About 25% are a farther link to the grade-level content to allow students who are just beginning to work with the academic content show what they know and can do.
- In the first years of the new assessment many students will likely answer questions and do tasks that are less complex, but increase complexity as they get better instruction.



# Technology

- This will be an online testing program.
- Some students will use the online testing program directly on the computer.
- For other students, the teacher may print out testing materials and enter student responses into the computer.



# **Exceptional Circumstances**

- NCSC recognizes the need to be cautious about giving assessments to certain students with significant medical needs or those who are clearly expressing distress during the test.
- There will be policies and criteria for dealing with these rare situations.
- There also will be a policy about whether an assessment can be stopped if the students is unable to communicate answers
- Data will be collected whenever these circumstances occur



# **Parent Documents**

# Process

- NCSC developed these documents with input from project staff, a State Advisory Group and a Parent Advisory Group
- They are useful regardless of whether the state is a NCSC partner.
- Documents will be added and updated as NCSC's work continues. Also parent training modules will be added
- States will likely make these documents "their own" and distribute them but parents can also see them on the NCSC website http://www.ncscpartners.org/resources



#### Parent Resources

#### http://www.ncscpartners.org/resources As of 1/23/2014

- Project Description
- NCSC Project Description One Page
- NCSC Diagram and Explanation  $\bullet$
- NCSC Model of Curriculum Instruction and Assessment
- NCSC Alternate Assessment FAQs
- NCSC Commonly Asked Parent Questions •
- NCSC IEP Team Guidance For Participation in AA-AAS •
- NCSC College and Career Readiness
- NCSC College Career Ready (CCR) Policy Paper Summary
- NCSC Communicative Competence
- NCSC Newsletter and Website Information for Parents National Center and State Collaborative



# Guidance for IEP Teams on Participation Decisions

Essentially the same Guidance for IEP Teams that educators receive, but more parent friendly:

- Provides the criteria for participation using the same language, but side bar provides definitions for the terms
- Lists information to be considered (e.g. classwork and assessment data) and information not to be considered (e.g. educational setting)- with some terms defined in parentheses
- Answers FAQs, including some that are specifically for parents e.g. document has placeholders for states to add diploma policies and process for disagreeing with IEP team decision

#### **Excerpt from Document**

- Substantially adapted materials classroom and other materials that have been changed in appearance and content from the materials that peers without disabilities use for instruction or assessment.
- Individualized methods of accessing information in alternative ways - individually selected methods for presenting information to the student that are different than the traditional presentation.
- Acquire, maintain, generalize, demonstrate, and transfer skills across multiple settings - when the student can learn and apply the skills in different classes, at home, at a job and in the community

3. The student requires extensive direct individualized instruction and substantial supports to achieve measurable gains in the grade and age-appropriate curriculum.

The student:

(a) requires extensive, repeated, individualized instruction and support that is not of a temporary or transient nature, and

(b) uses substantially adapted materials (e.g. significantly shortening the length of reading passages or using raised dots and hand-over-hand counting when identifying a matching number in math) and individualized methods of accessing information in alternative ways to acquire, maintain, generalize, demonstrate, and transfer skills across multiple settings.