This document identifies bridging standards in the 2016 *Mathematics Standards of Learning.* Bridging standards allow for the identification of content that can be connected when planning instruction and promote deeper student understanding.

Bridge icon Bridging standards (indicated by bold text in the grade level column below) are ones that meet one or more of the following criteria:

* Functions as a bridge to which other content within the grade level/course is connected, either horizontally or vertically;
* Serves as prerequisite knowledge for content to be addressed in future grade levels/courses; or
* Possesses endurance beyond a single unit of instruction within a grade level/course.

The selection of content focus areas, potential connections, and the sequencing of content in this document serve as examples only and are intended to assist with curricular development.

| **Kindergarten**  **Content**  **Focus Areas** | **Prerequisite Knowledge**  **Pre-K** | **Kindergarten  (Linked to Just in Time Mathematics Quick Checks)** | **.** | **Possible Kindergarten Connections Across Content Focus Areas** | **Possible Future Grade Level/Course Content Connections** |
| --- | --- | --- | --- | --- | --- |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.1 | [**K.1a**](https://www.doe.virginia.gov/home/showpublisheddocument/24224/638085478324970000) **Count orally to tell how many are in a given set up to 20 objects** |  | Number Relationships | Count Larger Sets of Objects (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.1 | [**K.1b**](https://www.doe.virginia.gov/home/showpublisheddocument/24228/638085482025770000) **Read, write, and represent numbers 0 to 20** |  | Patterns | Represent Larger Numbers (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.1 | [**K.3a**](https://www.doe.virginia.gov/home/showpublisheddocument/24240/638085485223330000) **Count forward orally by ones from 0 to 100** |  | Patterns | Count Beyond 100 (Grade 1) |
| **Counting, Comparing and Representing Quantities** | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.1 | [**K.2a**](https://www.doe.virginia.gov/home/showpublisheddocument/24232/638085483492530000) **Compare and describe one set as having more, fewer, or the same number of objects as the other set(s)** |  | Data | Compare Larger Sets of Objects (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.1 | [**K.2b**](https://www.doe.virginia.gov/home/showpublisheddocument/24236/638085484224630000) **Compare and order sets from least to greatest and greatest to least** |  | Data | Order Larger Numbers (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.1 | [**K.3d**](https://www.doe.virginia.gov/home/showpublisheddocument/24252/638085488629030000)Count forward by tens to determine the total number of objects to 100 |  |  | Determine Value of Set of Like Coins (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.1 | [**K.3b**](https://www.doe.virginia.gov/home/showpublisheddocument/24244/638085485996830000)Count backward orally by ones when given any number between 1 and 10 |  |  | Place Value and  Computation (Grade 1) |

| **Kindergarten Content**  **Focus Areas** | **Prerequisite Knowledge**  **(Links to Pre-K Standards)** | **Kindergarten (Linked to JIT Quick Checks)** | **.** | **Possible Kindergarten Connections Across Content Focus Areas** | **Possible Future Grade Level/Course Content Connections** |
| --- | --- | --- | --- | --- | --- |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.1 | [**K.3c**](https://www.doe.virginia.gov/home/showpublisheddocument/24248/638085487579800000) **Identify number after within 100, and the number before, within 10** | . |  | Place Value and  Order Numbers  (Grade 1) |
| **Noticing, Describing, and Creating Patterns** | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.4 | [K.13](https://www.doe.virginia.gov/home/showpublisheddocument/24308/638085502048630000) Identify, describe, extend, and create repeating patterns |  | Attributes | Growing Patterns (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.4 | [K.12](https://www.doe.virginia.gov/home/showpublisheddocument/24304/638085501503070000) **Sort and classify objects according to one attribute** |  | Coin Recognition | Sort by Two Attributes (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.3 | [K.10a](https://www.doe.virginia.gov/home/showpublisheddocument/24284/638085498433470000) Identify and describe plane figures (circle, triangle, square, and rectangle) |  | Patterns | Describe Plane Figures by Sides, Vertices, Angles (Grade 1) |
| **Using Attributes**  **to Compare,**  **Sort, and Order** | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.3 | [K.10b](https://www.doe.virginia.gov/home/showpublisheddocument/24288/638085499066570000) Compare the size (smaller, larger) and shape of plane figures (circle, triangle, square, and rectangle) |  | Patterns | Sort Plane Figures Based on Properties  (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.3 | [K.10c](https://www.doe.virginia.gov/home/showpublisheddocument/24292/638085499742430000) Describe the location of one object relative to another and identify representations of plane figures regardless of their positions and orientations in space |  | Patterns | Describe Plane Figures in Different Environments  (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.5 | [K.9](https://www.doe.virginia.gov/home/showpublisheddocument/24280/638085497818430000) Compare two objects or events, using direct comparisons (length, height, weight, temperature, volume, time) |  | Sort and Classify | Measure with Nonstandard Units (Grade 1) |
| **Using Whole Numbers to Measure and Describe My World** | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.5 | [K.8](https://www.doe.virginia.gov/home/showpublisheddocument/24276/638085496912400000) Investigate passage of time by reading and interpreting a calendar |  | Count and Read Numbers | Use a Calendar to Locate Given Dates (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.5 | [K.7](https://www.doe.virginia.gov/home/showpublisheddocument/24272/638085496273500000) Recognize attributes of coins and identify the number of pennies equivalent to a nickel, dime, and quarter |  | Sort and Classify | Determine Value of a Set of Like Coins (Grade 1) |

| **Kindergarten Content**  **Focus Areas** | **Prerequisite Knowledge**  **(Links to Pre-K Standards)** | **Kindergarten  (Linked to JIT Quick Checks)** | **.** | **Possible Kindergarten Connections Across Content Focus Areas** | **Possible Future Grade Level/Course Content Connections** |
| --- | --- | --- | --- | --- | --- |
| **Using Data to Describe My World** | N/A | [K.11a](https://www.doe.virginia.gov/home/showpublisheddocument/24296/638085500210870000) Collect, organize, and represent data |  | Count/Represent Numbers | Identify Categories to Collect Data (Grade 1) |
|  | N/A | [**K.11b**](https://www.doe.virginia.gov/home/showpublisheddocument/24300/638085500907970000)Read and interpret data in object graphs, picture graphs, and tables |  | Sort and Classify | Analyze Data Collected  (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.2 | [**K.4a**](https://www.doe.virginia.gov/home/showpublisheddocument/24256/638085489779670000) **Recognize and describe with fluency part-whole relationships for number to 5** |  | Count objects | Fluency with Numbers to 10 (Grade 1) |
| **Understanding Number Relationships and Solving Problems** | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.2 | [**K.4b**](https://www.doe.virginia.gov/home/showpublisheddocument/24262/638085493252500000) **Investigate and describe part-whole relationships for numbers to 10** |  | Count objects | Fluency with Numbers to 10 (Grade 1) |
|  | [ELDS](https://www.doe.virginia.gov/home/showpublisheddocument/421/637890605072570000) CD3.2 | [**K.6**](https://www.doe.virginia.gov/home/showpublisheddocument/24268/638085495386370000) **Model and solve story problems with sums to 10 and differences within 10, using concrete objects** |  | Count Objects | Problem Solving with Numbers to 20  (Grade 1) |
|  | N/A | [K.5](https://www.doe.virginia.gov/home/showpublisheddocument/24264/638085493702770000) Represent and solve practical problems involving equal shares with two sharers |  |  | Equal Shares with Four Sharers (Grade 1) |

*\*Virginia’s Early Learning and Development Standards (ELDS), Birth to Five Learning Guidelines* were implemented in fall 2021.

NOTES: Calendar should be included as part of the daily routines at this grade level. Once concepts have been introduced, many (i.e., counting, calendar, patterning, and modeling story problems) will need to be revisited throughout the year.