## 100 Days of School Collaboration

# Math, ELA Next Generation Learning & NYS Computer Science & Digital Fluency Standards

#### **KINDEGARTEN**

Reading (ELA)

- KRF4: Demonstrate understanding of spoken words, syllables, and sounds (phonemes).
  - KRF4a: Recognize and produce spoken rhyming words.
  - KRF4b: Blend and segment syllables in spoken words.
- RLK1: Ask and answer questions about what is heard in a simple, informative text.
  - RLK1a: Ask and answer questions about key details in a text.
  - RLK1b: Use illustrations and details in a text to answer questions.
- RI.K1: With prompting and support, ask and answer questions about key details in a text.
  - RI.K1a: With prompting and support, ask and answer questions about key details in a text.
  - RI.K1b: With prompting and support, use illustrations and details in a text to answer questions.

Writing (ELA)

- WLK1: Use a combination of drawing, dictating, and writing to narrate a simple personal story.
  - WLK1a: Develop a topic, write simple sentences, and provide some details.
  - WLK1b: Include some sequencing of events.
  - WLK1c: use clear and descriptive language.
- L.K.1: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
  - L.K.1a: Form complete sentences.
  - L.K.1b: Use correct pronouns and verb conjugations.
  - L.K.1c: Spell simple words correctly.

Speaking and Listening (ELA)

- \*\*SLK1: Participate in collaborative conversations with peers and adults. \*\*
  - SLK1a: Follow rules for conversation.
  - SLK1b: Build on the ideas of others and ask questions to clarify.
  - SLK1c: Share information from personal experiences.

Mathematics (Math)

- K.N.A.1: Understand and use numbers, place value, and number words.
  - K.N.A.1a: Count with understanding to 100.
  - K.N.A.1b: Understand place value to 10.
  - K.N.A.1c: Represent numbers and operations using manipulatives.
- K.MD.A.1: Describe and compare measurable attributes.
  - K.MD.A.1a: Length (longer, shorter)
  - K.MD.A.1b: Weight (heavier, lighter)
- K.CC.A.3: Compose and decompose numbers.
  - K.CC.A.3a: Separate a whole number (10 or less) into smaller parts and recombine parts to make the whole.
- K.G.A.2: Analyze, compare, and classify geometric shapes.
  - K.G.A.2a: Classify objects and shapes by given attributes.

NYS Computer Science & Digital Fluency (K-1)

- Computational Thinking: Problem Solving & Algorithms
  - K-1.CT.1 Identify and describe one or more patterns (found in nature or designed), and examine the patterns to find similarities and make predictions.
  - K-1.CT.2 Identify different kinds of data that can be collected from everyday life.
  - K-1.CT.3 Identify ways to visualize data, and collaboratively create a visualization of data.
  - K-1.CT.4 Identify a problem or task and discuss ways to break it into multiple smaller step
  - K-1.CT.6 Follow an algorithm to complete a task.

Networks and Systems Design

- K-1.NSD.1: Identify ways people provide input and get output from computing devices.
- K-1.NSD.2: Identify basic hardware components that are found in computing devices.

## 1<sup>st</sup> Grade

Reading (ELA)

- RF.1.3: Know and apply grade-level phonics and word analysis skills in decoding words.
  - RF.1.3a: Know and apply phonics and word analysis skills in decoding multisyllabic words.
  - RF.1.3b: Decode grade-level regular and irregular words.
  - RL.1.1: Ask and answer questions about key details in a text.
    - RL.1.1a: Ask and answer questions about what the text says explicitly and implicitly.

- RL.1.1b: Use illustrations and details in a text to answer questions.
- RL.1.2: Recount the main events of a story, using key details.
  - RL.1.2a: Retell stories and share experiences based on what they have read.
  - RL.1.2b: Use sequencing words to tell what happened first, next, and last.

Writing (ELA)

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- W.1.3: Write narratives with descriptive details and clear sequence of events.
  - W.1.3a: Introduce the narrator and setting.
  - W.1.3b: Develop the plot with a sequence of events.
  - W.1.3c: Use details to describe characters, settings, and events.
  - W.1.3d: Use temporal words to signal order.
- W.1.8: With guidance and support, use technology to produce and publish writing.
  - W.1.8a: Use keyboarding skills to type a few words or sentences independently.
  - W.1.8b: Use drawing and multimedia tools to enhance writing.
- L.1.1: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
  - L.1.1a: Form complete sentences.
  - L.1.1b: Use correct pronouns and verb conjugations.
  - L.1.1c: Spell grade-level words correctly.

Speaking and Listening (ELA)

- SL.1.1: Participate in collaborative conversations with diverse partners about grade-level topics and texts.
  - SL.1.1a: Follow rules for conversation.
  - SL.1.1b: Build on the ideas of others and ask questions to clarify and respond.
  - SL.1.1c: Use complete sentences when speaking.

Mathematics (Math)

- 1.OA.A.1: Use addition and subtraction within 100 to solve one-step and two-step word problems.
  - 1.OA.A.1a: Understand and solve problems involving finding sums and differences within 100.
  - 1.OA.A.1b: Decompose numbers less than 100 into multiples of 10 and 1 to solve problems.
- 1.NBT.A.1: Understand and use place value within 100.
  - 1.NBT.A.1a: Group objects by ones, tens, and hundreds.
  - 1.NBT.A.1b: Compare two whole numbers using place value.
- 1.MD.A.1: Order length, width, height, and weight directly. Compare length, width, height, and weight using appropriate vocabulary.
  - 1.MD.A.1a: Order objects by length, width, height, and weight.

• 1.MD.A.1b: Use vocabulary like shorter, longer, heavier, and lighter to compare objects.

NYS Computer Science & Digital Fluency (K-1)

- Computational Thinking: Problem Solving & Algorithms
  - K-1.CT.1 Identify and describe one or more patterns (found in nature or designed), and examine the patterns to find similarities and make predictions.
  - K-1.CT.2 Identify different kinds of data that can be collected from everyday life.
  - K-1.CT.3 Identify ways to visualize data, and collaboratively create a visualization of data.
  - K-1.CT.4 Identify a problem or task and discuss ways to break it into multiple smaller step
  - K-1.CT.6 Follow an algorithm to complete a task.

Networks and Systems Design

- K-1.NSD.1: Identify ways people provide input and get output from computing devices.
- K-1.NSD.2: Identify basic hardware components that are found in computing devices.

### $2^{nd}$ Grade

NYS Next Generation Math Standards:

- Number and Operations in Base Ten:
  - 2.NBT.A.1 Understand that the two digits of a two-digit number represent amounts of tens and ones. (e.g., 35 represents 3 tens and 5 ones or 30 + 5)
  - 2.NBT.B.5 Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
  - 2.NBT.C.6 Add up to four two-digit numbers using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
- Measurement and Data:
  - 2.MD.A.1 Measure the length of an object by selecting and using a standard unit (centimeter or inch).
  - 2.MD.B.5 Represent measured lengths using drawings and number line diagrams.

Geometry:

• 2.G.A.3 Partition a circle into equal shares.

NYS Next Generation ELA Standards:

• Reading:

- RF.2.4 Read with sufficient accuracy and fluency to support comprehension.
- RI.2.1 Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text.
- RI.2.3 Describe the connection between a picture and the text.

Writing:

- W.2.2 Write informative/explanatory texts in which they examine a topic and convey ideas and information clearly.
- W.2.8 Recall information from experiences or gather information from print and digital sources; take notes and use it to write a paragraph or a sequence of paragraphs.

Speaking and Listening:

- SL.2.1 Follow agreed-upon rules for classroom discussion and presentations.
- SL.2.3 Ask and answer questions about what they have read and heard.
  NYS Computer Science and Digital Fluency Standards:

NYS Computer Science & Digital Fluency Standards

Computational Thinking:

- 2-3.CT.1 Create a model of an object or computational process in order to identify patterns and essential elements of the object or process.
- 2-3.CT.2 Identify and describe data collection tools from everyday life.
- 2-3.CT.3 Present the same data in multiple visual formats in order to tell a story about the data.
- 2-3.CT.4 Identify multiple ways that the same problem could be decomposed into smaller steps.
- 2-3.CT.6 Create two or more algorithms for the same task.