

# The Connection Project 64 and The Common Core

## Math: Counting and Cardinality

Math.K.CC.3 – Write numbers 0-20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).

### Duct tape book for numbers

Vocabulary: compare, quantity, number, sequence, count, numeral, zero, greater than, less than, order

## Math: Operations and Algebraic Thinking

Math.K.OA.1 – Represent addition and subtraction with drawings.

Math.K.OA.2 – Solve addition and subtraction word problems by using drawings to represent the problem.

Math.K.OA.3 – Decompose numbers less than or equal to 10 into pairs in more than one way and record by a drawing or equation.

Math.K.OA.4 – For any number 1 to 9, find the number that makes 10 when added to the given number and record the answer with a drawing or equation.

All of the above use picture vocabulary that students are familiar with so that the 'drawing' part of the math is simplified because it is something they CAN draw.

Vocabulary: add, decompose, equation, solve, sum, addend, difference, number sentence, subtract, addition, equal, pair, subtraction.

## Math: Numbers and Operations in Base Ten

Math.K.NBT.1 Compose and decompose numbers 11 to 19 into tens and ones and some further ones and record using drawings and equations.

### Duct Tape book of teens

Vocabulary: decompose, tens, ones

## Math: Measurement and Data

Math.K.MD.1 – Describe measurable attributes of objects such as length.

### Lesson \_\_ The WOW lesson

Math.K.MD.2 – Directly compare two objects with a measurable attribute in common to see which has more or less of the attribute and describe the difference.

### Lesson \_\_ The blocks lesson

Math.K.MD.3 Classify objects into given categories

### Lesson \_\_ Drawing food, Characters/Things I can draw from P64 activity

Vocabulary: attribute, compare, length, measure, sort, category, height, less, more, weight

## Math: Geometry

Math.K.G.1 – Describe objects in the environment using names of shapes and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind and next to.

This language is used in all lessons throughout the project.

Math.K.G.2 – Correctly name shapes.

### Shape duct tape book

#### Lesson \_\_ The block tower

Most lessons involve multiple shapes and their position on the page or in relationship to another part of the drawing.

Math.K.G.3 – Identify shapes as two-dimensional or three-dimensional.

#### Lesson \_\_ The sphere

Math.K.G.4 – Analyze and Compare two and three-dimensional shapes, in different sizes and orientations, using informal language to describe similarities and differences, parts and other attributes.

#### Lesson \_\_ The block tower

Math.K.G.5 – Model shapes in the world by drawing shapes.

### Multiple lessons

Math.K.G.6 – Compose simple shapes to form larger shapes.

#### Lesson \_\_ The rocket, Lesson \_\_ The block tower, Lesson \_\_ The castle,

Vocabulary: analyze, circle, compare, compose, cone, cube, cylinder, different, hexagon, position word, rectangle, shape, similar, sphere, square, three-dimensional shape, triangle, two-dimensional shape

## ELA: Key Ideas and Details (Standards for Literature)

Literacy.RL.K.1 – With prompting and support, ask and answer questions about key details in a text.

Literacy.RL.K.2 – With prompting and support, retell familiar stories, including key details.

MM Activity - Students use drawings to express understanding of materials read. Students retell stories using drawings.

Literacy.RL.K.3 – With prompting and support, identify characters, settings, and major events in a story.

MM Activity – Students create character maps to describe characters in stories.

## ELA: Craft and Structure (Standards for Literature)

Literacy.RL.K.6 – With prompting and support, name the author and illustrator of a story and define the role of each in telling the story.

MM Activity – Students identify the roles of authors and illustrators. Students write and illustrate pages in class books.

Literacy.RL.K.7 – With prompting and support, describe the relationship between illustrations and the story in which they appear.

Students experience with drawing detailed pictures allows them to 'see' more in the illustrations in picture books and the vocabulary developed allows them to 'tell' more about what they see.

#### ELA: Key Ideas and Details (Standards for Informational Text)

Literacy.RI.K.2 – With prompting and support, identify the main topic and retell key details of a text.

MM Activity – Students draw pictures to illustrate the topics of stories read aloud. Students explain pictures.

#### ELA: Craft and Structure (Standards for Informational Text)

Literacy.RI.K.6. – Name the author and illustrator of a text and define the role of each in presenting the ideas or information in a text.

Duct tape polar animal book based on small group research project.

#### ELA: Integration of Knowledge and Ideas (Standards for Informational Text)

Literacy.RI.K.7 – With prompting and support, describe the relationship between illustrations and the text in which they appear.

Continued experience talking about drawings and the details of drawings builds student vocabulary that allows them to notice and describe the details in pictures of a text.

#### ELA: Foundational Skills

Literacy.RF.K.1 – Demonstrating understanding of the organization and basic features of print.

Literacy.RF.K.2 – Demonstrate understanding of spoken words, syllables, and sounds.

Literacy.RF.K.3 – Know and apply grade-level phonics and word analysis skills in decoding words.

Each lesson in the project incorporates writing and reading. The beginning lessons focus on the beginning sounds in words, develop into segmenting words into sounds to write a whole word, and then become the composing of descriptive sentences to tell about a drawing. The final project is the dragon book where we work together to read the text and then illustrate the text using the picture vocabulary that we have learned.

#### ELA: Writing Text Types and Purposes

Literacy.W.K.1 – Use a combination of drawing, dictating, and writing to compose opinion pieces in which they tell a reader the topic or name of the book they are writing about and state an opinion or preference about the topic or book.

MM Activity – Students complete opinion stems.

MM Activity – Students illustrate responses to prompts.

Literacy.W.K.2 – Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.

MM Activity – Students use pictures and words to explain steps to complete a task.

MM Activity – Following read alouds of informational/explanatory texts, students illustrate information learned.

Literacy.W.K.3 – Use a combination of drawing, dictating and writing to narrate a single event or several loosely linked events, tell about the events in the order in which they occurred, and provide a reaction to what happened.

MM Activity – Students use story maps to illustrate events from stories.

MM Activity – Students use words or drawings to tell about a personal experience.

### ELA: Language Standards

Literacy.L.K.1a – Print many upper and lowercase letters.

Literacy.L.K.1b – Use frequently occurring nouns and verbs.

Literacy.L.K.1f – Produce and expand complete sentences in shared language activities

Most of the lessons involve the writing of letters, words and sentences. The writing tasks evolve developmentally as the lessons progress.

Literacy.L.K.2 – Demonstrate command of the conventions of Standard English capitalization, punctuation, and spelling when writing.

Literacy.K.2a – Capitalize the first word in a sentence and the pronoun I.

Literacy.K.2b – Recognize and name end punctuation.

Literacy.K.2c – Write a letter or letters for most consonant and short vowel sounds.

Literacy.K.2d – Spell simple words phonetically, drawing knowledge of sound-letter relationships.

The writing portion of the lessons are accompanied by conversations that support the development of conventions.