## Grade K Mathematics - Unit 5: Comparing Sets <br> Phoenixville Area School District

## Stage 1 Desired Results

## PA Core Standards:

CC.2.1.K.A. 1 Know number names and write and recite the count sequence.
CC.2.1.K.A. 2 Apply one-toone correspondence to count the number of objects.
CC.2.1.K.A. 3 Apply the concept of magnitude to compare numbers and quantities.
CC.2.4.K.A. 4 Classify objects and count the number of objects in each category.
CC.2.1.K.B. 1 Use place value to compose and decompose numbers within 19.
C.C.2.2.K.A. 1 Extend the concepts of putting together and taking apart to add and subtract within 10.

## Transfer

TRANSFER GOALS
Students will be able to independently use their learning to...

- Number Sense: Develop a sound foundation to demonstrate the value of numbers by describing their various representations, relationships, and patterns.
- Problem-Solving: Persistently apply various problem-solving strategies and organized approaches to accurately understand and solve problems
- Mathematical Vocabulary: Interpret mathematical vocabulary and apply proper terminology to engage in meaningful oral and written expression that communicates mathematical thinking, problem-solving methods, and rationale.

|  | Meaning |  |
| :--- | :--- | :---: |
| UNDERSTANDINGS | ESSENTIAL QUESTIONS |  |
| Students will understand that... | Students will keep considering... |  |

- There are many ways to represent a number.
- Mathematicians use place value concepts to represent amounts.
- Identifying relationships between numbers helps classify and compare them.
-What are different ways to represent a number?
- How do I demonstrate the relationship among numbers, quantities, and place value for whole numbers?
- How can I use models, words, and expanded forms to order and compare numbers?


## KNOWLEDGE

Students will..

- Compare objects up to 19.
- Understand fewer, fewest and less.
- Understand more, most.
- Count on and count back.
- Compose numbers through 19.
- Decompose numbers through 19.


## Knowledge and Skills Acquisition

## SKILLS

Students will be skilled at...

- Counting on and back using fingers to compare groups of objects to 19.
- Using number trains / number lines to compare numbers using terms like more or less.
- Using number trains / number lines to count on and back to identify how many more or how many less.

|  |  | VOCABULARY <br> - Number Train / Number Line <br> - Count on to find the diff <br> - Count the number of ob manipulatives or picture <br> - Count the difference thr one-to-one corresponde | rence. <br> ects in each group of and tell how many in all. ugh comparing sets in ce. |
| :---: | :---: | :---: | :---: |
| Stage 2 - Evidence |  |  |  |
| Code A/M/T | Evaluative Criteria | Assessment Evidence |  |
| A/M/T <br> Acquisition <br> Meaning Making <br> Transfer | Identify "how many more". <br> Counting with one-to-one correspondence | PERFORMANCE TASK(S) <br> Students will demonstrate understanding (meaning-making and transfer) through complex performance by... <br> Bake Me a Cupcake! <br> - Goal: Your task is to...make sure there are enough cupcakes for everyone at a birthday party. <br> - Role/Audience: You are a baker in a bakery and you are baking enough cupcakes for 19 children at a birthday party. <br> - Situation/Product: You already made 9 cupcakes. How many more cupcakes do you need to make so that all 19 children can have one? <br> - Success Criteria: Student will be able to show that 10 more cupcakes are needed to make 19 total using cutout cupcakes from template located in $X$ Drive, Curriculum, Math Implementation 19-20, K, Unit 5. *Make 3 copies. | Differentiation Considerations: <br> **If needed, may adjust the number of cupcakes that were "already made" to differentiate for student levels. <br> - IEP/ 504 plans <br> - Small group instruction <br> - One-on-one conferring <br> - Vocabulary Posters <br> - Individual goal setting <br> - Audio and visual supports <br> - Various questioning strategies <br> - Strategic partnering <br> - Flexible Math Groups <br> - Extra Practice <br> - Enrichment <br> - Space for movement and breaks <br> - Additional time as needed <br> - Review directions <br> - Restate information |


| A/M/T <br> Acquisition <br> Meaning Making <br> Transfer | Composing and decomposing numbers to 19 <br> Identify "more" <br> Counting with one-to-one correspondence | OTHER EVIDENCE <br> [Chapter 9 MIF Assessment - Comparing Sets, Assessment Manual pages 30-31] <br> - 6 Constructed Response Prompts assess composing and decomposing numbers to 19 and 1 with an additional task of identifying "more". <br> [Chapter 14 MIF Assessment - Number Facts, Assessment Manual pages 4748] <br> - 6 Constructed Response Prompts: 4 assess composing and decomposing, 2 assess counting with one-to-one correspondence | Differentiation Considerations <br> - IEP/ 504 plans <br> - Small group instruction <br> - One-on-one conferring <br> - Vocabulary Posters <br> - Individual goal setting <br> - Audio and visual supports <br> - Various questioning strategies <br> - Strategic partnering <br> - Flexible Math Groups <br> - Extra Practice <br> - Enrichment <br> - Space for movement and breaks <br> - Additional time as needed <br> - Review directions <br> - Restate information |
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