MATHEMATICS COMMON CORE CURRICULUM UNIT #3 Grade K*

LE OF UNIT:	Numbers, Measuren	nent and Shapes	GRAD	Е: К	
DATE PRES	ENTED:	DATE DUE:			
LENGTH OF	TIME: 7 Weeks (5 wee	eks of explicit of instruc	tion and 2 weeks of as	ssessment & re-teaching	g)
RVIEW OF UNIT:			FEEFN		
ANDARDS: Comm Counting and no counting, number wr y will explore and und rribe and compare me y begin to analyze and see- dimensional shape Counting and Cardinality CC K.CC.1 K.CC.3 K.CC.6 K.CC.7	bers 0 – 30 to complete a umber activities, such as, iting and comparing num erstand concepts that easurable attributes. I describe two- and is.	 What number What number What number How do you k What would y How do you k use? What do you k use? What do you k What happen How many di What two-dir 	r patterns do you hear? r patterns do you see? r patterns do you see? row this group has mor you have to do to make is the to the to to make is the to the numeral is more see? r/shorter, heavier/lighted tell which item is taller/ is to the attributes of a sa fferent ways can you soon mensional shapes do you mains K-5 Number and Operations – Fractions NF	Twenty-one, twenty-two, 11, 12, 13, e than the other group? W the two groups the same of the two groups the two groups the two groups the two groups the the two groups the two groups the two groups the the two groups	twenty-three, /hat strategy did you i or equal? ? What strategy did you o you know? inger/shorter? ove it? Why? chaal shape? Geometry G K.G.4
	motion Prostings area	laa K 12		Modeling with Geometry G-MG	
Make sense of problems and persevere in solving them Reason abstractl and quantitatively	 Construct viable arguments and critique the reasoning of others y Model with mathematics ★ 	 Use appropriate tools strategically Attend to precision 	7 <mark>. Look</mark> for and make use of structure	8. Look for and express regularity in repeated reasoning	
CUS MATHEMATIC	S STANDARDS:				
Know number	names and the count seq	uence. K.CC.1,3	 Measurement Geometry K.G. 	and Data K.MD.1,2 4	

ENDURING UNDERSTANDING:

At the end of this unit, students will continue to build upon their understanding and application of number knowledge using the numbers 0 -30. They will learn how to describe and compare measurable attributes and how to analyze & compare two – and three- dimensional shapes.

PRIOR KNOWLEDGE:

- Use numbers and counting as a means for solving problems, predicting and measuring quantity. •
- Use words such as more than, less than and add/subtract to express some number concepts. •
- Begin to order, compare or describe objects according to size, length, height and weight using standard or non-standard forms of measurement.
- Describe and name common shapes. .
- Group objects according to their size and shapes. •

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STUDENT OBJECTIVES, SKILLS and/or NEW KNOWLEDGE:

- Saying the number names in a count sequence is a rote process. While it is foundational to counting, it does not indicate understanding of the relationship between quantity and number.
- Oral and written patterns exist in the counting sequence (e.g., +1 pattern, +10 pattern, etc.) .
- Number names can be written as numerals.
- Two quantities can be compared to determine which quantity is more, less or equal to the other quantity. ٠
- The size of groups can be compared in multiple ways. •
- Two numbers can be compared to determine which number is .more, less, or equal to the other. .
- Numbers can be compared in multiple ways. ٠
- Objects have multiple attributes. •
- Measurable attributes can be compared directly or indirectly. •
- Attributes are measured using a unit of measure. •
- Measurable attributes can be compared directly or indirectly. •
- Attributes are measured using a unit of measure.
- Attention to starting points, gaps, and overlaps is important to measure accurately. .
- Measurable attributes do not change when an object is moved (conservation). .
- Two-dimensional and three-dimensional shapes can be analyzed, compared and sorted based on their attributes.
- When sorted, a single item may belong to more than one category. •

SUGGESTED PROBLEMS:

ACTIVITIES, PRODUCTS, PERFORMANCE, and ASSESSMENTS: see curriculum introduction

- Application to real world 1. problems 2.
- Creating charts/collecting 8. Interview 3. Collaboration
 - interpersonal
 - Conferencing

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- 4. 5. Exhibits

HIGHER ORDER THINKING SKILLS: Web's Depth of Knowledge 2 – 4 or Bloom's Taxonomy

Web's Depth of Knowledge

skill/conceptual understanding

- strategic reasoning
- extended reasoning

- based/common tasks

- modeling)
- 18. Technology
- 19. Summarizing and notetaking
- 20. Tests and quizzes
- 21. Writing genres Arguments/ opinion Informative

Graphic organizers 7. Graphing

- Interviews
- 10. KWL charts
- 12. Modeling ★
- 14. Problem/Performance 15. Real-life applications

- - involving graphing 16. Represent numbers
- 11. Mathematical Practices 17. Rubrics/checklists
 - (mathematical practice,

- analyze
- synthesize/create
- evaluate

13. Oral presentations

- - apply

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VOCABULARY

Counting and Cardinality

- Count
- Counting sequence
- Digit
- Match
- Number

Measurement and Data

- Attribute
- Biggest
- Category
- Classify
- Compare
- Different
- Equal
- Greater than/less than
- Heavier

Geometry

- Above
- Behind
- Below
- Beside
- Between
- Circle
- Cone
- Cube
- Cylinder
- Different

- Quantity
- Remove
- Tens
- Total
- Zero
- Shorter (than)
- Similar
- Smallest
- Sort
 - Starting point
 - Taller
 - Weight
 - Width
 - Side
 - Solid
- Sphere
 - Square
 - Three-dimensional
 - Two-dimensional
 - Trapezoid
 - Triangle
 - Vertices "corners"

6/18/2013

• Numeral

One more

• Organize

Height

Length

• Lighter

• Pair

• Same

• Edge

• Face

Hexagon

• In front of

Next to

Octagon

• Rectangle

• Rhombus

• Same

• Flat/ lying in plane

How long?

• Longer than

Measurable

Object

Ones

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LESSON PLAN for UNIT _____

LESSONS

- Lesson # 1 Summary:
- Lesson #2 Summary:
- Lesson #3 Summary:

OBJECTIVES for LESSON # _____

- Materials/Resources:
- Procedures:
 - Lead --in
 - Step by step
 - Closure
- Instructional strategies: see curriculum introduction
- Assessments: see curriculum introduction
 o Formative
 - o Summative