GRADE Kindergarten– Unit 2: Numbers to 5, Shapes, Weight

Mission Statement
The primary goal of the Swedesboro-Woolwich School District is to prepare each student with the real life skills needed to compete in a highly competitive global economy. This will be achieved by providing a comprehensive curriculum, the integration of technology, and the professional services of a competent and dedicated faculty, administration, and support staff. Guiding this mission will be Federal mandates, including No Child Left Behind, the New Jersey Core Curriculum Content Standards, and local initiatives addressing the individual needs of our students as determined by the Board of Education. The diverse resources of the school district, which includes a caring PTO and active adult community, contribute to a quality school system. They serve an integral role in supporting positive learning experiences that motivate, challenge and inspire children to learn.

Unit/Module Overview

Ready Math Unit 2: Numbers to 5, Shapes, Weight

This unit introduces students to counting, writing, and comparing numbers to 5. It also introduces them to shapes and weight.

The major themes of the unit are:

- Counting each object in a group tells you how many are in the group.
- You say one number for each object in the group when you count.
- Knowing how to count helps you know what number is one more than another number.
- Comparing two groups tells you if one group has more, less, or the same number of objects as the other.
- Naming and describing solid shapes can help you describe your world.

Unit Skills include:

1. Count with one-to-one correspondence.
2. Show, write, and count numbers 0 to 5.
3. Understand 0 as representing no objects.

4. Compare two numbers 0 to 5 using the words more, less, or same.
5. Understand that one more refers to the next number in the counting sequence.
6. Name and describe solid shapes.
7. Compare the weights of two objects to tell which is heavier or lighter.
8. Use math vocabulary to describe numbers, shapes, and weight.

Standards Covered in Current Unit/Module
Related Standards and Learning Goals

K.CC.A. Know number names and the count sequence

1. Count to 100 by ones and by tens.
3. Write numbers from 0 to 20. Represent a number of objects with a written numeral 0–20 (with 0 representing a count of no objects).

K.CC.B. Count to tell the number of objects

5. Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1–20, count out that many objects.

K.CC.C. Compare numbers

6. Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies. (Clarification: Include groups with up to ten objects.)
7. Compare two numbers between 1 and 10 presented as written numerals.

K.G.A. Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres)

2. Correctly name shapes regardless of their orientations or overall size.
3. Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid").

K.MA.A. Describe and compare measurable attributes

1. Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.

K.DL.A. Classify objects and count the number of objects in each category

1. Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.

Unit/Module Weekly Learning Activities and Pacing Guide			
Topic & # Days	**NJ Standards**	**Critical Knowledge & Skills**	**Possible Resources & Activities**
5 Days	K.CC.A.1 K.CC.A.3 K.CC.B.5	Objectives: ● Count to 100 by 1's ● Count to 100 by 10's ● Write the numbers 0 to 20 ● Count objects up to 20 ● Represent objects up to 20 with a written numeral ● Count objects and tell how many ● Count to answer "how many?" objects up to 20 arranged in a line ● Count to answer "how many?" objects up to 20 arranged in a rectangular array ● Count to answer "how many?" objects up to 20 arranged in a circle ● Count to answer "how many?" objects up to 10 arranged in a scattered configuration Essential Questions: ● Can you count to 100 by 1's and 10's? ● How can I represent how many objects I counted? ● How can we show a number in other ways? ● How do I write numbers 1-5? Mathematical Practices Covered: ● Make sense of problems and persevere in solving	Lesson: ● Ready Math - Lesson 4 Count, Show, and Write Numbers to 5 Materials: ● Teacher Toolbox ● iReady app ● iReady Classroom text ● Centers library ● Classroom library read aloud ● Hands on math manipulatives ● Student Workbooks Formative Assessments: ● My Learning Path weekly progress ● Diagnostic Growth assessments ● Teacher observation ● Class participation ● Guided practice ● Individual practice ● Group work ● Student workbook ● Comprehension checks ● Lesson quizzes

		them ● Reason abstractly and quantitatively ● Construct viable arguments and critique the reasoning of others ● Model with mathematics ● Use appropriate tools strategically ● Attend to precision	
5 Days	K.CC.C.6 K.CC.C.7	Objectives: ● Identify a group of objects that has the greater amount ● Identify a group of objects that has the lesser amount ● Identify groups that have an equal amount of objects ● Tell which number is greater than or less than up to 10 Essential Questions: ● What is the difference between greater than, less than and equal to? ● Which number is larger, smaller? Mathematical Practices Covered: ● Make sense of problems and persevere in solving them ● Reason abstractly and quantitatively ● Construct viable arguments and critique the reasoning of others ● Model with mathematics ● Use appropriate tools strategically ● Attend to precision ● Look for and make use of structure ● Look for and express regularity in repeated reasoning	Lesson: ● Ready Math - Lesson 5 Compare Numbers to 5 Materials: ● Teacher Toolbox ● iReady app ● iReady Classroom text ● Centers library ● Classroom library read aloud ● Hands on math manipulatives ● Student Workbooks Formative Assessments: ● My Learning Path weekly progress ● Diagnostic Growth assessments ● Teacher observation ● Class participation ● Guided practice ● Individual practice ● Group work ● Student workbook ● Comprehension checks ● Lesson quizzes

5 Days	K.G.A.2 K.G.A.3 K.M.A.1	Objectives: ● Recognize and name the shape sphere ● Recognize and name the shape cube ● Recognize and name the shape cylinder ● Recognize and name the shape cone ● Recognize if a shape is three-dimensional (solid) ● Describe measurable attributes of objects, such as weight ● Compare the weights of two objects to tell which is heavier or lighter Essential Questions: ● What different types of shapes are in our world? ● What positions can shapes be positioned in? ● How do I describe and compare objects by height? Length? Weight? Mathematical Practices Covered: ● Make sense of problems and persevere in solving them ● Reason abstractly and quantitatively ● Construct viable arguments and critique the reasoning of others ● Model with mathematics ● Use appropriate tools strategically ● Attend to precision ● Look for and make use of structure	Lesson: ● Ready Math - Lesson 6 Three-Dimensional Shapes and Weight Materials: ● Teacher Toolbox ● iReady app ● iReady Classroom text ● Centers library ● Classroom library read aloud ● Hands on math manipulatives ● Student Workbooks Formative Assessments: ● My Learning Path weekly progress ● Diagnostic Growth assessments ● Teacher observation ● Class participation ● Guided practice ● Individual practice ● Group work ● Student workbook ● Comprehension checks ● Lesson quizzes
3 Days	K.CC.A.1 K.CC.A.3 K.CC.C.7 K.DL.A.1	Objectives: ● Count to 100 by 1's ● Count to 100 by 10's ● Write the numbers 0 to 20 ● Count objects up to 20 ● Represent objects up to 20 with a written numeral ● Tell which number is greater than or less than up	Lesson: ● Ready Math - Math in Action - Play with Puppets Materials: ● Teacher Toolbox ● iReady app ● iReady Classroom text

		to 10 ● Classify objects into given categories ● Count the number of objects in each category ● Sort categories by count Essential Questions: ● What can you count? Mathematical Practices Covered: ● Model with mathematics	● Centers library ● Classroom library read aloud ● Hands on math manipulatives ● Student Workbooks Formative Assessments: ● My Learning Path weekly progress ● Diagnostic Growth assessments ● Teacher observation ● Class participation ● Guided practice ● Individual practice ● Group work ● Student workbook ● Comprehension checks ● Lesson quizzes
1 Day		Objectives: ● Demonstrate knowledge of Unit 2standards and objectives. Essential Questions: ● What do you know how to do well? ● What math could you use in your everyday life? ● What is a question you still have? Mathematical Practices Covered: ● Make sense of problems and persevere in solving them ● Reason abstractly and quantitatively ● Construct viable arguments and critique the reasoning of others ● Model with mathematics ● Use appropriate tools strategically ● Attend to precision	Lesson: ● Ready Math - Comprehension Check / Unit Assessments Materials: ● Teacher Toolbox ● iReady app ● iReady Classroom text ● Centers library ● Classroom library read aloud ● Hands on math manipulatives ● Student Workbooks Formative Assessments: ● Unit Assessment

		• Look for and make use of structure • Look for and express regularity in repeated reasoning	

Interdisciplinary Connections for Kindergarten Math	
Technology Integration	**21st Century Skills**
• Animal Circus (ipad app) - learning games • Create a classroom Math Word Wall • If appropriate, use an interactive anchor chart to introduce or extend a lesson • Prior to lesson, engage students by viewing a video on the topic of the lesson (YouTube, connected) • Small group games, activities, challenges using classroom iPads • www.IXL.com - counting, skip counting, shapes • www.abcya.com - counting, shapes, numerical order, number sense, math bingo • www.funbrain.com - number recognition to 10, counting • www.gonoodle.com - Counting to 100, Skip counting • www.mathplayground.com - counting, shapes • www.pbskids.org - Counting (Peg's Pizza Place, Rock Art, Martha Seeks), Shapes (Paint-a-long, Stack to the Sky) • www.starfall.com - shapes, calendar skills, math songs, counting to 5	• CRP.K-12 CRP 1 Act as a responsible and contributing citizen and employee • CRP.K-12 CRP 2 Apply appropriate academic and technical skills • CRP.K-12 CRP 6 Demonstrate creativity and innovation • CRP.K-12.CRP 8 Utilize critical thinking to make sense of problems and persevere in solving them • CRP.K-12.CRP11 Use technology to enhance productivity • CRP.K-12.CRP12 Work productively in teams while using cultural global competence • WRK.9.1.2.CAP.1 Make a list of different types of jobs and describe the skills associated with each job • CAEP.0.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success • TECH.9.4.2.CT.3 Use a variety of types of thinking to solve problems (e.g., inductive, deductive). • TECH.9.4.2.TL.3 Enter information into a spreadsheet and sort the information. • TECH.9.4.2.IML.1 Identify a simple search term to find the information in a search engine or digital resource • TECH.9.4.2.IML.2 Represent data in a visual format to tell a story about the data • TECH.9.4.2.IML.4 Compare and contrast the way the information is shared in a variety of contexts (e.g., social, academic, athletic).

Link to Additional Components including Cross Curricular Connections, Accommodations, Assessments, Etc

ELA Enduring Understanding Statements