

Pre - Kindergarten Math Map

Course: Elementary Math

Developed by: *Deb Stasierowski, Karen Murphy, Stacey Clark*

From: September 2008 to June 2009 (10 months)

Map Status: In Progress - Shared

Grade: PK to 5

South Seneca Elementary School

Mapping Category	September 2008	October 2008
Theme	Welcome Bus Safety Apples	Caterpillars to butterflies Fire safety Fall Pumpkins
Content	Calendar Graphing of: daily weather, how do we come to school, which apples do we like the best Weight and height of children	Calendar: counting Graphing of: daily weather, favorite color Morning message: number recognition
Skills	Number recognition and counting (exposure), Measurement graphing -comparing and contrasting elements (sunny, rainy, windy, cloudy) sorting (apples by color)	Sequencing - Life cycle of butterfly number recognition 1-10, counting forwards 1-10 and backwards 1-10, Measurement: Cooking applesauce graphing: comparing and contrasting elements of the weather (most, least, equal), Sorting and Patterning: fall leaves and M&M's Estimation: how many seeds are in pumpkin Geometry: block building, shapes: circle, square, triangle; spatial relations: puzzles and manipulatives Introduction into addition and subtraction: find one more or one less Comparison: biggest to littlest pumpkin Volume: Sand and water: which container holds more

		<p>less or same</p> <p>Shapes - circle, square, triangle rectangle</p>
Assessment	<p>Observation, oral responses of children, student work</p> <p>Classroom Graphs</p> <p>Student Work (journals)</p>	<p>Observation, oral responses of children, student work</p> <p>Classroom graphs</p> <p>Student Work (journals)</p>
Resources	<p>Mailbox Companion</p> <p>Calendar</p> <p>Classroom graphs</p> <p>Growth Chart</p> <p>Weight scale</p> <p>Library Books</p>	<p>The M&M Counting Book</p> <p>Calendar</p> <p>Mailbox Companion</p> <p>Classroom Graphs</p> <p>Fresh apples and pumpkins, measuring cups and spoons and oven</p> <p>Brigance Pre-School Assessment Tool</p> <p>Library Books</p>

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Mapping Category	November 2008	December 2008
Theme	Families Thanksgiving Responsibility	Caring and sharing Holiday celebrations
Content	Graphing Calendar number recognition 1-10 patterns sorting Counting	Graphing calendar number recognition 1-10 patterns sorting counting One-to-one correspondence Measurement
Skills	Graphing: weather: more, less, equal Comparison: Who has the most family members (most, least, biggest). Number recognition: 0-10 Counting: 1-10, backwards 10-0 Geometry: shapes: circle, square, triangle, rectangle, block building Sorting: leaves by color Patterns: leaf patterning Counting: One-to-One Correspondence: counting out 10 turkey's putting them in the correct order 1-10	Sorting: Boy and girl gingerbread cutouts, Red and green M&M's Counting: 1-10 Backwards: 10-0 Number recognition: 0-10 Graphing: Weather: Compare and contrast: (sunny, rainy, windy, cloudy, snowy) more, less and equal. Family Celebrations: who celebrates Christmas, Hanukkah, or Kwanzaa: compare and contrast using most least and equal Patterning: Red and green M&M's Addition and subtraction: adding one more and taking away one more One-to One Correspondence: Matching and counting gingerbread erasers to number on Gingerbread cutout: 1-10 Geometry: Shapes: Circle square Triangle, block building Volume: Sand and water: which containers hold more or less

		<p>Measurement: making gingerbread cookies</p> <p>Calendar and writing Center</p>
Assessment	<p>Observation</p> <p>Oral responses of children</p> <p>student work</p> <p>Student Work (journals)</p>	<p>observation</p> <p>oral responses of children</p> <p>student work (Gingerbread counting book)</p> <p>Student Work (journals)</p>
Resources	<p>Calendar</p> <p>Mailbox Companion</p> <p>Library Books</p>	<p>calendar</p> <p>Mailbox Companion Magazine</p> <p>The Gingerbread Man book</p> <p>The Cheerios Christmas play book</p> <p>Gingerbread cut outs and small erasers</p> <p>Library Books</p>

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Mapping Category	January 2009	February 2009
Theme	Winter Goals Arctic Animals	Post office Honesty Valentine's Day
Content	Graphing Calendar number recognition 1-10 patterns sorting counting One-to-One Correspondence measurement Comparing	Graphing Calendar number recognition 1-10 patterns sorting counting One-to One Correspondence measurement
Skills	Number recognition: 0-10 during morning message Counting: 1-31 daily at calendar One-to-One Correspondence: penguin patterns and numbered penguins Graphing: Weather (more, less, equal with elements), Do we like winter or summer better? Measurement: Who is bigger an Emperor Penguin or a four year old (comparing and making predictions)	Sorting: red, white, pink by color and size Graphing: weather(compare / contrast elements (sunny, rainy, windy, cloudy, and snowy) Mail delivery-does our mail get delivered to the post office or our home (vocabulary-most, least, equal) One-to-one correspondence 1-10 counting out hearts up to 10 patterns: what different patterns can we make with different colored hearts vocabulary(biggest to littlest) addition and subtraction: "five little hearts" finger

	<p>Comparing Building a snowman with three different size circles: biggest, bigger (middle), smallest</p> <p>Geometry: shapes: circle, square, triangle, rectangle</p> <p>Volume: sand and water</p> <p>Addition and subtraction: "5 Little Penguin Song" take one penguin away put one back</p> <p>Patterns: make different patterns with Father, Mother, and Baby snowmen</p> <p>sorting: sorting different shaped and sized snowflakes</p>	<p>play</p> <p>calendar: counting 1-15, backwards 10-0</p> <p>Geometry: shapes; circle, square, rectangle, triangle and heart</p> <p>volume: sand and water</p>
Assessment	<p>observation</p> <p>oral responses</p> <p>student work</p> <p>Penguin Counting book</p> <p>Pre-K Assessment</p> <p>Student work (journals)</p>	<p>observation</p> <p>oral responses</p> <p>student work</p> <p>Student letter to mail home</p> <p>Thank you letter to Post Office</p> <p>Student Work (journals)</p>
Resources	<p>Calendar</p> <p>morning message</p> <p>penguin model as big as an emperor penguin</p> <p>circles cut out in different sizes for snowmen</p> <p>penguins cut out of felt (5)</p> <p>mailbox companion magazine</p> <p>finger plays and song book</p> <p>Counting Penguins book</p> <p>Library Books</p>	<p>finger plays and song book</p> <p>calendar</p> <p>morning message</p> <p>heart cut outs and various shapes and sizes</p> <p>mailbox companion</p> <p>Library Books</p>

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Mapping Category	March 2009	April 2009
Theme	Feelings Five senses	Spring Life cycle of a frog and plant Personal Safety
Content	graphing calendar number recognition 1-10 patterns sorting vocabulary counting one-to-one correspondence measurement shapes	graphing calendar number recognition 1-10 patterns sorting measurement addition and subtraction vocabulary one-to-one correspondence shapes sequencing
Skills	sorting: manipulatives at math center, shamrocks by size vocabulary: biggest and littlest: which shamrock is big which one is little. Graphing: Weather, How are we feeling today?, eye color Counting: daily counting during calendar time, backwards 10-0 Number recognition: 0-10 during	sorting: manipulatives at math center (seeds by size shape, color and growth, jelly beans by color) vocabulary: most, least, equal, above, below(which seeds grow above ground or below) Graphing: weather, which is our favorite color jelly bean? Counting: daily counting during calendar time, backwards 10-0 Number recognition: 0-10 during morning message

	<p>morning message</p> <p>Measuring and counting: cooking of magic powder</p> <p>addition and subtraction: "Five Little Shamrock song" taking and adding one shamrock</p> <p>volume: sand and water table</p> <p>One-to-One Correspondence: Counting and matching shamrocks to written numbers</p> <p>Geometry: shapes: circle, square, triangle, rectangle, heart, shamrock, block building at block center</p>	<p>Measurement: plant growth daily</p> <p>addition and subtraction: 5 little ducks song and finger play, 1 little 2 little 3 little bunnies felt board activity and song, jelly bean counting, take one color away or add to a pile.</p> <p>volume: sand and water table</p> <p>One-to-One Correspondence: counting and matching bunnies to written numbers, counting jelly beans and jelly bean number book</p> <p>Geometry: shapes: circle, square, triangle, rectangle, oval, block building at block center</p> <p>sequencing: life cycle of a plant and frog putting in correct order from first to last</p>
Assessment	<p>Observation</p> <p>oral responses</p> <p>student work (journals)</p>	<p>observation</p> <p>oral responses of children</p> <p>student work (journals)</p>
Resources	<p>calendar</p> <p>morning message</p> <p>cut out shamrocks in different sizes</p> <p>mailbox companion</p> <p>Library Books</p>	<p>calendar</p> <p>morning message</p> <p>counting jelly beans number book</p> <p>different types of seeds</p> <p>mailbox companion</p> <p>jelly beans</p> <p>felt bunnies labeled 1-10</p> <p>pictures of the life cycle of a frog and plant to put in correct order</p> <p>Library Books</p>

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Mapping Category	May 2009	June 2009
Theme	Farm Animals Life Cycle of a Frog	Wrap-up Transitioning to Kindergarten
Content	Graphing calendar number recognition 1-10 comparing sorting measurement One-to-One Correspondence addition and subtraction sequencing vocabulary	Graphing calendar number recognition 1-10 comparing sorting measurement One-to-One Correspondence addition and subtraction vocabulary
Skills	Graphing: weather, which is our favorite farm animal Counting: daily counting during calendar time, backwards 10-0 Number recognition: daily 0-10 during our morning message Measurement: daily measuring of plant growth comparing: types of weather -most, least, and equal Sorting: farm animals by color, size, type, and habitat	Graphing: weather, which is our favorite zoo animal Counting: daily counting during calendar time, backwards 10-0 Number recognition: daily 0-10 during our morning message and calendar time Measurement: height and weight of children from September to June Comparing: difference in height and weight from September to June, comparing types of weather - most least and equal Vocabulary: first, next, and last, add one, and take

	<p>sequencing: Life cycle of a frog</p> <p>vocabulary: first, next, and last, add one, and take away one</p> <p>addition and subtraction: "Five green and speckled frogs story and song, Ten Little Fish story</p> <p>One-To-One Correspondence: Ten Little Fish Story and Five Green and Speckled story match frogs and fish to the number in the stories</p> <p>volume: sand and water table</p> <p>geometry: shapes: circle, square, triangle, rectangle, oval and daily block building in the block corner</p>	<p>away one</p> <p>addition and subtraction: Five little Monkey's song and finger play, Crocodile and Monkey song and finger play</p> <p>One-to-One Correspondence: matching monkeys to the numbers in the story</p> <p>Volume: sand and water table</p> <p>geometry: shapes: circle, square, triangle, rectangle, oval and daily block building in the block corner</p>
Assessment	<p>observation</p> <p>oral responses of children</p> <p>farm book</p> <p>student work (journals)</p>	<p>observation</p> <p>oral responses of children</p> <p>student work (journals)</p>
Resources	<p>calendar</p> <p>morning message</p> <p>farm book to copy for each child</p> <p>tadpoles (tadpole sequencing cards)</p> <p>plants</p> <p>farm animals</p> <p>"Five Green and Speckled Frogs" song and book and 5 counting frogs</p> <p>"Ten Little Fish" book and ten counting fish</p> <p>Mailbox Companion</p> <p>Library Books</p>	<p>calendar</p> <p>morning message</p> <p>Library Books</p>

