

Grade Level: Kindergarten

Subject: Math Expressions

Hex	Course Objectives
1	<p>Math Expressions Unit 1</p> <p>Cluster: Count to tell the number of objects</p> <p>Big Idea 1: Counting and cardinality 1-5</p> <p>Lesson:</p> <ol style="list-style-type: none">1. Introduce number and counting routines: children count object in the classroom and in a counting books orally from 1-10 and by using their fingers.2. Relate object and numbers through 5: children identify, order and count numbers 1-53. Draw scenes of 2 and 3: children discuss number relationships and tell and model story problems.4. Counting and cardinality 1-5: children identity from the number word, count and order the numbers 1-5.5. Counting and cardinality through 5: children identify, order and count numbers 1-5 and draw 4 or 5 objects.6. Scenes and visual imagery: children count, visualize and draw 1 through 5 objects and understand zero. <p>Cluster: understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.</p> <p>Big Idea 2: Adding, subtracting, and comparing through 5</p> <p>Lesson:</p> <ol style="list-style-type: none">7. Introduce adding and subtracting: children identify and draw objects for numbers 1-5 and connect to adding and subtracting.8. Identify circles: children describe circles and use them to add and subtract.9. Introduce comparing: children identify, order, and compare two numbers 1-5.10. Identify squares and rectangles children identify and classify rectangles by their attributes. <p>Cluster Know number names and the count sequence</p> <p>Big Idea 3 show numbers 1 through 10</p> <p>Lesson:</p> <ol style="list-style-type: none">11. Count from 1 to 10: children identify, order, and compare numbers 1 through 10 using objects.12. Objects and numbers through 10: children identity, count, and compare two numbers 1-10 and write the numbers 1, 2, and 3.13. Practice numbers 1-10: children build, compare, and count objects with the numbers 1-10.14. Number objects in a group: children write and identify groups of 4 and represent addition and subtraction. <p>Cluster: compare numbers</p> <p>Big Idea 4: practice numbers 1 through 10</p> <p>Lesson:</p> <ol style="list-style-type: none">15. Objects and numbers through 10: children build, compare, and identify groups of objects that match a number.16. Practice: number of objects in a group: children write the numeral 5 and identity groups of 5.

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	<p>17. More objects and numbers through 10: children identify, order, and compare numbers 1-10</p> <p>18. Focus on mathematical practices: children solve problems in a real-world context.</p>
2	<p>Unit 2</p> <p>Cluster: count to tell the number of objects</p> <p>Big Idea 1: using 5-groups</p> <p>Lesson</p> <ol style="list-style-type: none">1. Find numbers 1-10: neighborhood scene: children use 5-groups to help them find up to 10 objects.2. Relate objects and numbers 6-10: children count and order numbers through 10, and they will use 5-groups to make the numbers 6-103. Family Math Stories: children identify groups of 6 through 104. 5-groups in numbers 6-10: children count out and make numbers 6 through 10 with 5-groups5. Add and subtract with family math stories: children act out addition and subtraction stories from family experiences. <p>Cluster: understand addition as putting together and adding to, and understand subtraction as taking apart and taking from</p> <p>Big Idea 2: addition and subtraction stories</p> <p>Lesson:</p> <ol style="list-style-type: none">6. Addition and subtraction stories: playground scenario: children create addition and subtraction stories and count out and order numbers through 10.7. Numbers 6-10: children compare, write, and represent numbers 1 through 10 and identify if they are equal or not equal.8. Number 1-10: children learn to draw 7 objects, write the numeral 7, and order numbers 1 through 10. <p>Patterns: AB, ABB, AAB, AABB, ABC</p>
3	<p>Continue with Unit 2:</p> <p>Cluster: understand addition as putting together and adding to, and understand subtraction as taking apart and taking from</p> <p>Big Idea 2: addition and subtraction stories</p> <p>Lesson:</p> <ol style="list-style-type: none">9. Practice with 5-groups: children identify number words, order numbers 1-10, and represent numbers through 10 using 5-group.10. Numbers 6, 7, and 8: children act out math stories, draw 8 objects, and write the numeral 8. <p>Cluster: count to tell the number of objects</p> <p>Big idea 3: practice numbers 1 through 10, the + pattern</p> <p>Lesson</p> <ol style="list-style-type: none">11. Addition and subtraction stories: garden scenario: children act out math stories, count 9 objects, and write the numeral 9.12. Numbers 1 through 10: the + pattern: children build concepts of numbers 1 through 10 and explore the +1 relationship between numbers13. Identify triangles: children identify and classify triangles by their attributes.

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	<p>14. More numbers 1 through 10: the +1 pattern: children build concepts of numbers 1-10 and explore the + 1 relationship between numbers.</p> <p>15. Addition and subtraction stories Family experiences: children act out addition, subtraction and partner situations; write the number 10; and draw 10 objects</p> <p>Cluster: count to tell the number of objects</p> <p>Big Idea 4 numbers 1 through 10, the - pattern</p> <p>Lesson:</p> <p>16. Numbers 1 through 10: the - pattern: children build concepts of numbers 1-10 and explore the -1 relationship between numbers.</p> <p>17. Identify hexagons: children identify and classify hexagons by their attributes.</p> <p>18. Number writing practice: children practice writing the numerals 1 through 10.</p> <p>19. More numbers 1 through 10: the -1 pattern: children build concepts of numbers 1-10, explore the -1 relationship between numbers, and order numbers through 10.</p> <p>20. Focus on mathematical practices: children solve problems in a real world context.</p>
4	<p>Time unit: telling time to the hour on a digital and analog clock.</p> <p>Unit 3</p> <p>Cluster: know number names and the count sequence</p> <p>Big Idea 1-partners of 5 and 6</p> <p>Lesson:</p> <ol style="list-style-type: none">1. Numbers 1-10 and math stories park scene: children find groups of 1 through 10 and identify partners.2. Groups of 10: children identify 10-groups within teen numbers3. Explore partners through 6: children find partners and numbers 2 through 6. <p>Money unit: Identifying penny, nickel, and dime and their values.</p>
5	<p>Continue Unit 3</p> <p>Cluster: know number names and the count sequence</p> <p>Big Idea 1-partners of 5 and 6</p> <p>Lesson</p> <ol style="list-style-type: none">4. Addition and subtraction stories: park scene: children tell and solve addition Money unit: identifying penny, nickel, and dime and their values.5. More groups of 10: children show tens in teen numbers and draw numbers 6 through 10 using 5-groups.6. Model partners thought 6 with counters: children find partners of numbers 2 through 6 and show teen numbers as a group of ten ones and extra ones.7. More addition and subtraction stories: park scene: children tell and solve addition and subtraction stories and swho numbers 6 through 10 using 5-groups8. Show tens and ones: children math teen numbers using 5-groups.9. Make new shapes: children compose 2-dimensional shapes. <p>Cluster: identity and describe shapes</p> <p>Big Idea 2: classifying</p> <p>Lesson:</p>

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	<p>10. Explore Classifying: children classify using various attributes, and compare and order the categories by numbers.</p> <p>11. Practice addition and subtraction stories: park scene: children tell and solve addition and subtraction stories and show numbers 6 through 10 using 5-groups</p> <p>12. Practice classifying: children will learn to sort and classify shapes and other objects using various attributes.</p> <p>Cluster: work with numbers 11-19 to gain foundations for place value</p> <p>Big Idea 3: tens in teen numbers</p> <p>Lesson:</p> <p>13. Build Teen numbers: children practice using 5-groups and making teen numbers</p> <p>14. Practice with 5-groups: children review using 5-groups and use = and not equal to signs.</p> <p>15. Tens in teens: children show teen numbers in a group of ten ones and further ones and math partners and totals for teen numbers.</p> <p>16. Stories and partner: children tell and solve addition and subtraction stories and show partner for numbers 2 through 7.</p> <p>17. Practice with partners: children show all partners for numbers 2 through 7 and math partner expressions with teen numbers.</p> <p>Cluster: work with numbers 11-19 to gain foundation for place value</p> <p>Big Idea 4: Build teen numbers</p> <p>Lesson:</p> <p>18. Build teen numbers with classroom objects: children show a group of ten when building a teen number and see and record partners for 5, 6, and 7.</p> <p>19. Show teen numbers with classroom objects: children show a group of ten when making a teen number and match partners and totals for teen numbers.</p> <p>20. Object collections: Teen Numbers: children make teen numbers with ten ones and further ones and match partners and totals for teen numbers.</p> <p>21. Focus on mathematical practices: children solve real-world problems in a variety of situations.</p>
6	<p>Freckle assignments for concept review</p> <p>Addition and subtraction practice</p> <p>Review 2-D shapes and introduce 3-D shapes</p> <p>End of year review</p>