

A Correlation of

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To the
North Carolina
Standard Course of Study - Mathematics
Grade 3

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North Carolina Standard Course of Study Mathematics – Grade 3	enVisionmath2.0, ©2017 Grade 3
Standards for Mathematical Practice	
1. Make sense of problems and persevere in solving them.	<p>This standard is met throughout enVisionmath2.0 Grade 3, for examples please see: SE: F21; Topic 1: 7; Topic 2: 61, 64; Topic 3: 124, 126; Topic 4: 184; Topic 5: 242; Topic 6: 322; Topic 7: 365; Topic 8: 408; Topic 9: 483-484; Topic 10: 548, 552; Topic 11: 577; Topic 12: 612; Topic 13: 698; Topic 14: 746; Topic 15: 812; Topic 16: 854</p> <p>TE: F21-F21A; Topic 1: 7; Topic 2: 61, 63-64; Topic 3: 123-124, 125-126; Topic 4: 183-184; Topic 5: 241-242; Topic 6: 321-322; Topic 7: 365; Topic 8: 407-408; Topic 9: 483-484; Topic 10: 547-548, 552; Topic 11: 577-578; Topic 12: 611-612; Topic 13: 698; Topic 14: 746; Topic 15: 812; Topic 16: 854</p>
2. Reason abstractly and quantitatively.	<p>This standard is met throughout enVisionmath2.0 Grade 3, for examples please see: SE: F22; Topic 1: 9, 14; Topic 2: 66; Topic 3: 124; Topic 4: 170; Topic 5: 244, 250; Topic 6: 306; Topic 7: 362; Topic 8: 438; Topic 9: 489; Topic 10: 542; Topic 11: 578; Topic 12: 615, 622; Topic 13: 699; Topic 14: 745; Topic 15: 824-826; Topic 16: 855</p> <p>TE: F22-F22A; Topic 1: 9-10, 14; Topic 2: 65-66; Topic 3: 123-124; Topic 4: 170; Topic 5: 244, 250; Topic 6: 305-306; Topic 7: 361-362; Topic 8: 437-438; Topic 9: 489-490; Topic 10: 541-542; Topic 11: 577-578; Topic 12: 615, 622; Topic 13: 699-700; Topic 14: 745; Topic 15: 824-826; Topic 16: 855-856</p>

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<p>3. Construct viable arguments and critique the reasoning of others.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 3, for examples please see: SE: F23; Topic 1: 18; Topic 2: 69; Topic 3: 112, 118; Topic 4: 176; Topic 5: 242; Topic 6: 302, 304; Topic 7: 370; Topic 8: 420; Topic 9: 476; Topic 10: 546; Topic 11: 574, 591-594; Topic 12: 610; Topic 13: 697; Topic 14: 750; Topic 15: 818; Topic 16: 872</p> <p>TE: F23-F23A; Topic 1: 17-18; Topic 2: 69-70; Topic 3: 111-112, 117-118; Topic 4: 176; Topic 5: 241-242; Topic 6: 302, 304; Topic 7: 369-370; Topic 8: 419-420; Topic 9: 476; Topic 10: 546; Topic 11: 574, 591-594; Topic 12: 610; Topic 13: 697; Topic 14: 749-750; Topic 15: 818; Topic 16: 872</p>
<p>4. Model with mathematics.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 3, for examples please see: SE: F24; Topic 1: 8, 12; Topic 2: 82; Topic 3: 112; Topic 4: 181; Topic 5: 248; Topic 6: 320; Topic 7: 366; Topic 8: 410, 424; Topic 9: 482; Topic 10: 542; Topic 11: 575-576; Topic 12: 618; Topic 13: 680; Topic 14: 752; Topic 15: 823; Topic 16: 848, 872</p> <p>TE: F24-F24A; Topic 1: 8, 11-12; Topic 2: 81-82; Topic 3: 111-112; Topic 4: 181; Topic 5: 247-248; Topic 6: 320; Topic 7: 366; Topic 8: 409-410, 424; Topic 9: 482; Topic 10: 541-542; Topic 11: 575-576; Topic 12: 617-618 Topic 13: 680; Topic 14: 752; Topic 15: 823; Topic 16: 848, 872</p>
<p>5. Use appropriate tools strategically.</p>	<p>This standard is met throughout enVisionmath2.0 Grade 3, for examples please see: SE: F25; Topic 1: 19; Topic 2: 74, 85; Topic 3: 115; Topic 4: 169, Topic 5: 261; Topic 6: 301, 340; Topic 8: 428, 456; Topic 9: 475; Topic 10: 556; Topic 12: 645; Topic 13: 673; Topic 14: 766, 771-772; Topic 15: 820, 832; Topic 16: 871</p> <p>TE: F25-F25A; Topic 1: 19; Topic 2: 74, 85; Topic 3: 115; Topic 4: 169, Topic 5: 261; Topic 6: 301, 339-340; Topic 8: 427-428, 455-456; Topic 9: 475; Topic 10: 555-556; Topic 12: 645; Topic 13: 673; Topic 14: 765-766, 771-772; Topic 15: 819-820, 831-832; Topic 16: 871</p>

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6. Attend to precision.	<p>This standard is met throughout enVisionmath2.0 Grade 3, for examples please see: SE: F26; Topic 1: 10, 32; Topic 2: 73, 86; Topic 4: 200; Topic 5: 250; Topic 6: 301; Topic 7: 359-360, 362; Topic 8: 417; Topic 9: 492; Topic 10: 545; Topic 11: 582; Topic 12: 612; Topic 13: 706; Topic 14: 739; Topic 15: 817, 830-832; Topic 16: 847</p> <p>TE: F26-F26A; Topic 1: 9-10, 32; Topic 2: 73, 86; Topic 4: 200; Topic 5: 250; Topic 6: 301; Topic 7: 359-360, 361-362; Topic 8: 417; Topic 9: 491-492; Topic 10: 545; Topic 11: 581-582; Topic 12: 611-612; Topic 13: 705-706; Topic 14: 739; Topic 15: 817, 830-832; Topic 16: 847</p>
7. Look for and make use of structure.	<p>This standard is met throughout enVisionmath2.0 Grade 3, for examples please see: SE: F27; Topic 1: 22, 25-26; Topic 2: 61-62; Topic 3: 110-111; Topic 4: 172; Topic 5: 238; Topic 6: 337-340; Topic 7: 386; Topic 8: 405-406, 410; Topic 9: 475; Topic 10: 539-540; Topic 11: 586; Topic 12: 609; Topic 13: 674; Topic 15: 811, 828; Topic 16: 860, 882</p> <p>TE: F27-F27A; Topic 1: 21-22, 25-26; Topic 2: 61-62; Topic 3: 110-112; Topic 4: 171-172; Topic 5: 238; Topic 6: 337-340; Topic 7: 385-386; Topic 8: 405-406, 409-410; Topic 9: 475; Topic 10: 539-540; Topic 11: 586; Topic 12: 609; Topic 13: 674; Topic 15: 811, 827-828; Topic 16: 860, 881-882</p>
8. Look for and express regularity in repeated reasoning.	<p>This standard is met throughout enVisionmath2.0 Grade 3, for examples please see: SE: F28; Topic 1: 13, 40; Topic 2: 81; Topic 3: 115; Topic 4: 169; Topic 5: 237; Topic 6: 322; Topic 7: 382; Topic 8: 411-414; Topic 9: 489, 498; Topic 10: 551; Topic 11: 579; Topic 12: 633; Topic 13: 688; Topic 14: 759-760; Topic 15: 811, 817; Topic 16: 853</p> <p>TE: F28-F28A; Topic 1: 13, 39-40; Topic 2: 81-82; Topic 3: 115; Topic 4: 169; Topic 5: 237; Topic 6: 321-322; Topic 7: 381-382; Topic 8: 411-414; Topic 9: 489-490, 497-498; Topic 10: 551; Topic 11: 579; Topic 12: 633; Topic 13: 687-688; Topic 14: 759-769; Topic 15: 811, 817; Topic 16: 853</p>

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Operations and Algebraic Thinking	
Represent and solve problems involving multiplication and division.	
NC.3.OA.1 For products of whole numbers with two factors up to and including 10:	SE: Topic 1: 7-12, 13-18, 19-24, 43-48; Reteaching: 51-52, Sets A-C, F; Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90; Reteaching: 99-100, Sets A-E TE: Topic 1: 7A-12, 13A-18, 19A-24, 43A-48; Reteaching: 51-52, Sets A-C, F; Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90; Reteaching: 99-100, Sets A-E
• Interpret the factors as representing the number of equal groups and the number of objects in each group.	SE: Topic 1: 7-12, 13-18, 19-24, 25-30; Reteaching: 51-52, Sets A-D; Topic 2: 61-66, 67-72; Reteaching: 99, Sets A-B TE: Topic 1: 7A-12, 13A-18, 19A-24, 25A-30; Reteaching: 51-52, Sets A-D; Topic 2: 61A-66, 67A-72; Reteaching: 99, Sets A-B
• Illustrate and explain strategies including arrays, repeated addition, decomposing a factor, and applying the commutative and associative properties.	SE: Topic 1: 19-24, 25-30, 31-38; Reteaching: 51-52, Sets C-E; Topic 3: 109-114, 145-150; Reteaching: 159-160, Sets A, E TE: Topic 1: 19A-24, 25A-30, 31A-38; Reteaching: 51-52, Sets C-E; Topic 3: 109A-114, 145A-150; Reteaching: 159-160, Sets A, E
NC.3.OA.2 For whole-number quotients of whole numbers with a one-digit divisor and a one-digit quotient:	SE: Topic 1: 31-36, 37-42, 43-48; Reteaching: 52, Sets E-F TE: Topic 1: 31A-36, 37A-42, 43A-48; Reteaching: 52, Sets E-F
• Interpret the divisor and quotient in a division equation as representing the number of equal groups and the number of objects in each group.	SE: Topic 1: 31-36, 37-42, 43-48; Reteaching: 52, Sets E-F TE: Topic 1: 31A-36, 37A-42, 43A-48; Reteaching: 52, Sets E-F
• Illustrate and explain strategies including arrays, repeated addition or subtraction, and decomposing a factor.	SE: Topic 1: 31-36, 37-42, 43-48; Reteaching: 52, Sets E-F; Topic 3: 109-114; Reteaching: 159, Set A TE: Topic 1: 31A-36, 37A-42, 43A-48; Reteaching: 52, Sets E-F; Topic 3: 109A-114; Reteaching: 159, Set A

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<p>NC.3.OA.3 Represent, interpret, and solve one-step problems involving multiplication and division.</p>	<p>SE: Topic 1: 7-12, 13-18, 19-24, 25-30, 31-36, 37-42, 43-48; Reteaching: 51-52, Sets A-F; Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90, 91-96; Reteaching: 99-100, Sets A-F; Topic 3: 115-120, 121-126, 127-132, 133-138, 139-144, 145-150; Reteaching: 159-160, Sets B-E; Topic 4: 169-174, 175-180, 181-186, 187-192, 193-198, 199-204, 205-210, 211-216, 217-222; Reteaching: 225-228, Sets A-I; Topic 5: 255-260, 261-266, 267-272, 273-278; Reteaching: 288-290, Sets D-G; Topic 7: 359-364, 377-382, 383-388; Reteaching: 391-392, 393-394, Sets A, C-D</p> <p>TE: Topic 1: 7A-12, 13A-18, 19A-24, 25A-30, 31A-36, 37A-42, 43A-48; Reteaching: 51-52, Sets A-F; Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90, 91A-96; Reteaching: 99-100, Sets A-F; Topic 3: 115A-120, 121A-126, 127A-132, 133A-138, 139A-144, 145A-150; Reteaching: 159-160, Sets B-E; Topic 4: 169A-174, 175A-180, 181A-186, 187A-192, 193A-198, 199A-204, 205A-210, 211A-216, 217A-222; Reteaching: 225-228, Sets A-I; Topic 5: 255A-260, 261A-266, 267A-272, 273A-278; Reteaching: 287-290, Sets D-G; Topic 7: 359A-364, 377A-382, 383A-388; Reteaching: 391-394, Sets A, C-D</p>
<ul style="list-style-type: none"> • Solve multiplication word problems with factors up to and including 10. Represent the problem using arrays, pictures, and/or equations with a symbol for the unknown number to represent the problem. 	<p>SE: Topic 1: 7-12, 13-18, 19-24, 25-30; Reteaching: 51-52, Sets A-F; Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90, 91-96; Reteaching: 99-100, Sets A-F; Topic 3: 115-120, 121-126, 127-132, 133-138, 139-144, 145-150; Reteaching: 159-160, Sets B-E; Topic 5: 255-260, 261-266, 267-272, 273-278; Reteaching: 288-290, Sets D-G</p> <p>TE: Topic 1: 7A-12, 13A-18, 19A-24, 25A-30; Reteaching: 51-52, Sets A-F; Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90, 91A-96; Reteaching: 99-100, Sets A-F; Topic 3: 115A-120, 121A-126, 127A-132, 133A-138, 139A-144, 145A-150; Reteaching: 159-160, Sets B-E; Topic 5: 255A-260, 261A-266, 267A-272, 273A-278; Reteaching: 287-290, Sets D-G</p>

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<p>• Solve division word problems with a divisor and quotient up to and including 10. Represent the problem using arrays, pictures, repeated subtraction and/or equations with a symbol for the unknown number to represent the problem.</p>	<p>SE: Topic 1: 7-12, 13-18, 19-24, 25-30, 31-36, 37-42, 43-48; Reteaching: 51-52, Sets A-F; Topic 3: 115-120, 121-126, 127-132, 133-138, 139-144, 145-150; Reteaching: 159-160, Sets B-E; Topic 4: 169-174, 175-180, 181-186, 187-192, 193-198, 199-204, 205-210, 211-216, 217-222; Reteaching: 225-228, Sets A-I; Topic 5: 255-260, 261-266, 267-272, 273-278; Reteaching: 288-290, Sets D-G; Topic 7: 359-364, 365-370, 383-388; Reteaching: 391, 393-394, Sets A, C-D</p> <p>TE: Topic 1: 7A-12, 13A-18, 19A-24, 25A-30, 31A-36, 37A-42, 43A-48; Reteaching: 51-52, Sets A-F; Topic 3: 115A-120, 121A-126, 127A-132, 133A-138, 139A-144, 145A-150; Reteaching: 159-160, Sets B-E; Topic 4: 169A-174, 175A-180, 181A-186, 187A-192, 193A-198, 199A-204, 205A-210, 211A-216, 217A-222; Reteaching: 225-228, Sets A-I; Topic 5: 255A-260, 261A-266, 267A-272, 273A-278; Reteaching: 287-290, Sets D-G; Topic 7: 359A-364, 365A-370, 383A-388; Reteaching: 391-394, Sets A, C-D</p>
<p style="text-align: center;">Understand properties of multiplication and the relationship between multiplication and division.</p>	
<p>NC.3.OA.6 Solve an unknown-factor problem, by using division strategies and/or changing it to a multiplication problem.</p>	<p>SE: Topic 4: 169-174, 175-180, 181-186, 187-192, 199-204, 205-210; Reteaching: 225-227, Sets A-D, F-G</p> <p>TE: Topic 4: 169A-174, 175A-180, 181A-186, 187A-192, 199A-204, 205A-210; Reteaching: 225-228, Sets A-D, F-G</p>

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Multiply and divide within 100.	
NC.3.OA.7 Demonstrate fluency with multiplication and division with factors, quotients and divisors up to and including 10.	<p>SE: Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90, 91-96; Reteaching: 99-100, Sets A-F; Topic 3: 115-120, 121-126, 127-132, 133-138, 139-144, 145-150; Reteaching: 159-160, Sets B-E; Topic 4: 169-174, 175-180, 181-186, 187-192, 199-204, 205-210; Reteaching: 225-227, Sets A-D, F-G; Topic 5: 237-242, 243-248, 249-254, 255-260; Reteaching: 287-288, Sets A-D</p> <p>TE: Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90, 91A-96; Reteaching: 99-100, Sets A-F; Topic 3: 115A-120, 121A-126, 127A-132, 133A-138, 139A-144, 145A-150; Reteaching: 159-160, Sets B-E; Topic 4: 169A-174, 175A-180, 181A-186, 187A-192, 199A-204, 205A-210; Reteaching: 225-228, Sets A-D, F-G; Topic 5: 237A-242, 243A-248, 249A-254, 255A-260; Reteaching: 287-288, Sets A-D</p>
<ul style="list-style-type: none"> • Know from memory all products with factors up to and including 10. 	<p>SE: Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90, 91-96; Reteaching: 99-100, Sets A-F; Topic 3: 115-120, 121-126, 127-132, 133-138, 139-144, 145-150; Reteaching: 159-160, Sets B-E</p> <p>TE: Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90, 91A-96; Reteaching: 99-100, Sets A-F; Topic 3: 115A-120, 121A-126, 127A-132, 133A-138, 139A-144, 145A-150; Reteaching: 159-160, Sets B-E</p>
<ul style="list-style-type: none"> • Illustrate and explain using the relationship between multiplication and division. 	<p>SE: Topic 4: 169-174, 175-180, 181-186, 187-192, 199-204, 205-210; Reteaching: 225-227, Sets A-D, F-G</p> <p>TE: Topic 4: 169A-174, 175A-180, 181A-186, 187A-192, 199A-204, 205A-210; Reteaching: 225-228, Sets A-D, F-G</p>
<ul style="list-style-type: none"> • Determine the unknown whole number in a multiplication or division equation relating three whole numbers. 	<p>SE: Topic 4: 211-214; Reteaching: 228, Set H</p> <p>TE: Topic 4: 211A-214; Reteaching: 227-228, Set H</p>

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Solve two-step problems.	
NC.3.OA.8 Solve two-step word problems using addition, subtraction, and multiplication, representing problems using equations with a symbol for the unknown number.	<p>SE: Topic 4: 217-222; Reteaching: 228, Set I; Topic 7: 377-382; Reteaching: 393, Set C; Topic 11: 573-578, 579-584, 585-590, 591-596; Reteaching: 599-600, Sets A-D</p> <p>TE: Topic 4: 217A-222; Reteaching: 227-228, Set I; Topic 7: 377A-382; Reteaching: 393-394, Set C; Topic 11: 573A-578, 579A-584, 585A-590, 591A-596; Reteaching: 599-600, Sets A-D</p>
Explore patterns of numbers.	
NC.3.OA.9 Interpret patterns of multiplication on a hundreds board and/or multiplication table.	<p>SE: Topic 2: 61-66, 67-72, 73-78, 79-84, 85-90; Reteaching: 99-100, Sets A-E; Topic 3: 115-120, 121-126, 127-132, 133-138; Reteaching: 159-160, Sets B-D; Topic 4: 193-198; Reteaching: 227, Set E; Topic 5: 237-242; Reteaching: 287, Set A; Topic 8: 411-416; Reteaching: 461, Set B</p> <p>TE: Topic 2: 61A-66, 67A-72, 73A-78, 79A-84, 85A-90; Reteaching: 99-100, Sets A-E; Topic 3: 115A-120, 121A-126, 127A-132, 133A-138; Reteaching: 159-160, Sets B-D; Topic 4: 193A-198; Reteaching: 227-228, Set E; Topic 5: 237A-242; Reteaching: 287-288, Set A; Topic 8: 411A-416; Reteaching: 461-462, Set B</p>
Number and Operations in Base Ten	
Use place value to add and subtract.	
<p>NC.3.NBT.2 Add and subtract whole numbers up to and including 1,000.</p> <p>(Continued) NC.3.NBT.2 Add and subtract whole numbers up to and including 1,000.</p>	<p>SE: Topic 8: 405-410, 423-438, 429-434, 435-440, 441-446, 447-452, 453-458; Reteaching: 461-464, Sets A, D-I; Topic 9: 475-480, 481-486, 487-492, 493-498, 499-504, 505-510, 511-516, 517-522; Reteaching: 525-528, Sets A-H</p> <p>TE: Topic 8: 405A-410, 423A-438, 429A-434, 435A-440, 441A-446, 447A-452, 453A-458; Reteaching: 461-464, Sets A, D-I; Topic 9: 475A-480, 481A-486, 487A-492, 493A-498, 499A-504, 505A-510, 511A-516, 517A-522; Reteaching: 525-528, Sets A-H</p>

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<ul style="list-style-type: none"> • Use estimation strategies to assess reasonableness of answers. 	<p>SE: Topic 8: 435-440, 441-446; Reteaching: 463, Sets F-G; Topic 9: 481-484, 487-492, 493-498, 505-510, 511-516; Reteaching: 525-528, Sets B-D, F-G</p> <p>TE: Topic 8: 435A-440, 441A-446; Reteaching: 463-464, Sets F-G; Topic 9: 481A-486, 487A-492, 493A-498, 505A-510, 511A-516; Reteaching: 525-528, Sets B-D, F-G</p>
<ul style="list-style-type: none"> • Model and explain how the relationship between addition and subtraction can be applied to solve addition and subtraction problems. 	<p>SE: Topic 8: 447-452; Reteaching: 464, Set H</p> <p>TE: Topic 8: 447A-452; Reteaching: 463-464, Set H</p>
<ul style="list-style-type: none"> • Use expanded form to decompose numbers and then find sums and differences. 	<p>SE: Topic 9: 475-480; Reteaching: 525, Set A</p> <p>TE: Topic 9: 475A-480; Reteaching: 525-526, Set A</p>
Generalize place value understanding for multi-digit numbers.	
<p>NC.3.NBT.3 Use concrete and pictorial models, based on place value and the properties of operations, to find the product of a one-digit whole number by a multiple of 10 in the range 10–90.</p>	<p>SE: Topic 10: 539-544, 545-550, 551-556, 557-562; Reteaching: 565-566, Sets A-D</p> <p>TE: Topic 10: 539A-544, 545A-550, 551A-556, 557A-562; Reteaching: 565-566, Sets A-D</p>
Number and Operations – Fractions	
Understand fractions as numbers.	
<p>NC.3.NF.1 Interpret unit fractions with denominators of 2, 3, 4, 6, and 8 as quantities formed when a whole is partitioned into equal parts;</p>	<p>SE: Topic 12: 609-614, 615-620, 621-626, 627-632, 639-644, 645-650, 651-656; Reteaching: 659-662, Sets A-D, F-H</p> <p>TE: Topic 12: 609A-614, 615A-620, 621A-626, 627A-632, 639A-644, 645A-650, 651A-656; Reteaching: 659-662, Sets A-D, F-H</p>
<ul style="list-style-type: none"> • Explain that a unit fraction is one of those parts. 	<p>SE: Topic 12: 609-614, 615-620, 621-626; Reteaching: 659-660, Sets A-C</p> <p>TE: Topic 12: 609A-614, 615A-620, 621A-626; Reteaching: 659-660, Sets A-C</p>
<ul style="list-style-type: none"> • Represent and identify unit fractions using area and length models. 	<p>SE: Topic 12: 627-632, 639-644, 645-650, 651-656; Reteaching: 660-662, Sets D, F-H</p> <p>TE: Topic 12: 627A-632, 639A-644, 645A-650, 651A-656; Reteaching: 659-662, Sets D, F-H</p>

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NC.3.NF.2 Interpret fractions with denominators of 2, 3, 4, 6, and 8 using area and length models.	SE: Topic 12: 609-414, 615-620, 621-626, 627-632, 639-644, 645-650, 651-656; Reteaching: 659-662, Sets A-D, F-H TE: Topic 12: 609A-414, 615A-620, 621A-626, 627A-632, 639A-644, 645A-650, 651A-656; Reteaching: 659-662, Sets A-D, F-H
<ul style="list-style-type: none"> Using an area model, explain that the numerator of a fraction represents the number of equal parts of the unit fraction. 	SE: Topic 12: 609-614, 615-620, 621-626; Reteaching: 659-660, Sets A-C TE: Topic 12: 609A-614, 615A-620, 621A-626; Reteaching: 659-660, Sets A-C
<ul style="list-style-type: none"> Using a number line, explain that the numerator of a fraction represents the number of lengths of the unit fraction from 0. 	SE: Topic 12: 627-632, 633-638; Reteaching: 660-661, Sets D, E TE: Topic 12: 627A-632, 633A-638; Reteaching: 659-662, Sets D, E
NC.3.NF.3 Represent equivalent fractions with area and length models by:	SE: Topic 13: 673-678, 679-684, 685-690, 691-696; Reteaching: 723-724, Sets A-D TE: Topic 13: 673A-678, 679A-684, 685A-690, 691A-696; Reteaching: 723-724, Sets A-D
<ul style="list-style-type: none"> Composing and decomposing fractions into equivalent fractions using related fractions: halves, fourths and eighths; thirds and sixths. 	SE: Topic 13: 673-678, 679-684, 685-690, 691-696; Reteaching: 723-724, Sets A-D TE: Topic 13: 673A-678, 679A-684, 685A-690, 691A-696; Reteaching: 723-724, Sets A-D
<ul style="list-style-type: none"> Explaining that a fraction with the same numerator and denominator equals one whole. 	SE: Topic 13: 709-714; Reteaching: 726, Set G TE: Topic 13: 709A-714; Reteaching: 725-726, Set G
<ul style="list-style-type: none"> Expressing whole numbers as fractions and recognize fractions that are equivalent to whole numbers. 	SE: Topic 13: 709-714; Reteaching: 726, Set G TE: Topic 13: 709A-714; Reteaching: 725-726, Set G

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NC.3.NF.4 Compare two fractions with the same numerator or the same denominator by reasoning about their size, using area and length models, and using the $>$, $<$, and $=$ symbols. Recognize that comparisons are valid only when the two fractions refer to the same whole with denominators: halves, fourths and eighths; thirds and sixths.	SE: Topic 13: 785-690, 691-696, 697-702, 703-709, 715-720; Reteaching: 724-726, Sets C-F, H TE: Topic 13: 785A-690, 691A-696, 697A-702, 703A-709, 715A-720; Reteaching: 723-726, Sets C-F, H
Measurement and Data	
Solve problems involving measurement.	
NC.3.MD.1 Tell and write time to the nearest minute. Solve word problems involving addition and subtraction of time intervals within the same hour.	SE: Topic 14: 739-744, 745-750, 751-756, 787-792; Reteaching: 795-796, 798, Sets A-C, I TE: Topic 14: 739A-744, 745A-750, 751A-756, 787A-792; Reteaching: 795-798, Sets A-C, I
NC.3.MD.2 Solve problems involving customary measurement.	SE: Topic 14: 757-762, 763-768, 769-774, 775-780, 781-786; Reteaching: 796-798, Sets D-H TE: Topic 14: 757A-762, 763A-768, 769A-774, 775A-780, 781A-786; Reteaching: 795-798, Sets D-H
<ul style="list-style-type: none"> • Estimate and measure lengths in customary units to the quarter-inch and half-inch, and feet and yards to the whole unit. 	SE: Topic 12: 639-644, 645-650; Reteaching: 661-662, Sets F-G TE: Topic 12: 639A-644, 645A-650; Reteaching: 661-662, Sets F-G
<ul style="list-style-type: none"> • Estimate and measure capacity and weight in customary units to a whole number: cups, pints, quarts, gallons, ounces, and pounds. 	SE: Topic 14: 757-762, 763-768, 769-774, 775-780; Reteaching: 796-798, Sets D-G TE: Topic 14: 757A-762, 763A-768, 769A-774, 775A-780; Reteaching: 795-798, Sets D-G
<ul style="list-style-type: none"> • Add, subtract, multiply, or divide to solve one-step word problems involving whole number measurements of length, weight, and capacity in the same customary units. 	SE: Topic 14: 781-786; Reteaching: 798, Sets H, I TE: Topic 14: 781A-786; Reteaching: 797-798, Sets H, I

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Represent and interpret data.	
NC.3.MD.3 Represent and interpret scaled picture and bar graphs:	SE: Topic 7: 359-364, 365-370, 371-376, 377-382, 383-388; Reteaching: 391-394, Sets A-D TE: Topic 7: 359A-364, 365A-370, 371A-376, 377A-382, 383A-388; Reteaching: 391-394, Sets A-D
<ul style="list-style-type: none"> Collect data by asking a question that yields data in up to four categories. 	Teachers have the opportunity to address this standard. SE: Topic 7: 359-364, 365-370, 371-376; Reteaching: 391-392, Sets A-B TE: Topic 7: 359A-364, 365A-370, 371A-376; Reteaching: 391-392, Sets A-B
<ul style="list-style-type: none"> Make a representation of data and interpret data in a frequency table, scaled picture graph, and/or scaled bar graph with axes provided. 	SE: Topic 7: 359-364, 365-370, 371-376; Reteaching: 391-392, Sets A-B TE: Topic 7: 359A-364, 365A-370, 371A-376; Reteaching: 391-392, Sets A-B
<ul style="list-style-type: none"> Solve one and two-step “how many more” and “how many less” problems using information from these graphs 	SE: Topic 7: 377-382, 383-388; Reteaching: 391-394, Sets A-D TE: Topic 7: 377A-382, 383A-388; Reteaching: 391-394, Sets A-D
Understand the concept of area.	
NC.3.MD.5 Find the area of a rectangle with whole-number side lengths by tiling without gaps or overlaps and counting unit squares.	SE: Topic 6: 301-306, 307-312, 313-318; Reteaching: 345-346, Sets A-C TE: Topic 6: 301A-306, 307A-312, 313A-318; Reteaching: 345-346, Sets A-C
NC.3.MD.7 Relate area to the operations of multiplication and addition.	SE: Topic 6: 319-324, 325-330, 331-336, 337-342; Reteaching: 346-348, Sets D-G; Topic 16: 865-870, 871-876; Reteaching: 886, Set C TE: Topic 6: 319A-324, 325A-330, 331-336, 337A-342; Reteaching: 345-348, Sets D-G; Topic 16: 865A-870, 871A-876; Reteaching: 886, Set C

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<ul style="list-style-type: none"> Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths. 	<p>SE: Topic 6: 319-324, 337-342; Reteaching: 346, 348, Sets D, G</p> <p>TE: Topic 6: 319A-324, 337A-342; Reteaching: 345-348, Sets D, G</p>
<ul style="list-style-type: none"> Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving problems, and represent whole-number products as rectangular areas in mathematical reasoning. 	<p>SE: Topic 6: 319-324, 337-342; Reteaching: 346, 348, Sets D, G; Topic 16: 865-870, 871-876; Reteaching: 886, Set C</p> <p>TE: Topic 6: 319A-324, 337A-342; Reteaching: 345-348, Sets D, G; Topic 16: 865A-870, 871A-876; Reteaching: 886, Set C</p>
<ul style="list-style-type: none"> Use tiles and/or arrays to illustrate and explain that the area of a rectangle can be found by partitioning it into two smaller rectangles, and that the area of the large rectangle is the sum of the two smaller rectangles. 	<p>SE: Topic 6: 325-330; Reteaching: 347, Set E</p> <p>TE: Topic 6: 325A-330; Reteaching: 347-348, Set E</p>
Understand the concept of perimeter.	
<p>NC.3.MD.8 Solve problems involving perimeters of polygons, including finding the perimeter given the side lengths, and finding an unknown side length.</p>	<p>SE: Topic 16: 847-852, 853-858, 859-864, 865-870, 871-876, 877-882; Reteaching: 885-886, Sets A-D</p> <p>TE: Topic 16: 847A-852, 853A-858, 859A-864, 865A-870, 871A-876, 877A-882; Reteaching: 885-886, Sets A-D</p>
Geometry	
Reason with shapes and their attributes.	
<p>NC.3.G.1 Reason with two-dimensional shapes and their attributes.</p>	<p>SE: Topic 15: 811-816, 817-822, 823-828, 829-834; Reteaching: 837-838, Sets A-D</p> <p>TE: Topic 15: 811A-816, 817A-822, 823A-828, 829A-834; Reteaching: 837-838, Sets A-D</p>
<ul style="list-style-type: none"> Investigate, describe, and reason about composing triangles and quadrilaterals and decomposing quadrilaterals. 	<p>SE: Topic 15: 811-816, 817-822, 823-828, 829-834; Reteaching: 837-838, Sets A-D</p> <p>TE: Topic 15: 811A-816, 817A-822, 823A-828, 829A-834; Reteaching: 837-838, Sets A-D</p>

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• Recognize and draw examples and non-examples of types of quadrilaterals including rhombuses, rectangles, squares, parallelograms, and trapezoids.	SE: Topic 15: 811-816, 817-822, 823-828, 829-834; Reteaching: 837-838, Sets A-D TE: Topic 15: 811A-816, 817A-822, 823A-828, 829A-834; Reteaching: 837-838, Sets A-D

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