Year 6 home learning overview 2020-21

1 Chapter 1: Numbers to 1 000 000					
Recap year 5 Book 5A, Ch.1, Lesson 6: Comparing Numbers to 1 Million	Recap year 5 Book 5A, Ch.1, Lesson 7: Comparing Numbers to 1 000 000	Recap year 5 Book 5A, Ch.1, Lesson 12: Rounding Numbers	**Chapter 1: Numbers to 10 Million**		
			Lesson 1: Reading and Writing Numbers to 10 Million	Lesson 2: Reading and Writing Numbers to 10 Million	Lesson 3: Reading and Writing Numbers to 10 Million

2 Chapter 1: Numbers to 1 000 000					
Lesson 4: Comparing Numbers to 10 Million	Lesson 5: Comparing and Ordering Numbers to 10 Million	Lesson 6: Rounding Numbers	Lesson 7: Rounding Numbers	MNP Year 5 summer assessment	MNP Year 5 summer assessment

3 Recap year 5: 4-operations					
Recap year 5 Book 5A, Chapter 2: Whole Numbers: Addition and Subtraction Lesson 5: Adding within 1 000 000	Recap year 5 Book 5A, Lesson 9: Subtracting within 1 000 000	Embed year 5 addition and subtraction column methods	Recap year 5 Book 5A, Chapter 3: Lesson 8: Multiplying 2 and 3-Digit Numbers	Recap year 5 Book 5A, Chapter 3: Lesson 9: Multiplying 4-Digit Numbers	Recap year 5 Book 5A, Chapter 3: Lesson 10: Multiplying 4-Digit Numbers

4 Recap year 5: 4-operations					
Recap year 5 Book 5A, Chapter 3: Lesson 13: Multiplying a 2-Digit Number by a 2-Digit Number	Recap year 5 Book 5A, Chapter 3: Lesson 15: Multiplying a 3-Digit Number by a 2-Digit Number	Recap year 5 Book 5A, Chapter 3: Lesson 17: Dividing 3-Digit and 4-Digit Numbers	Recap year 5 Book 5A, Chapter 3: Lesson 18: Dividing 4-Digit Numbers	Recap year 5 Book 5A, Chapter 3: Lesson 19: Dividing with Remainder	**Chapter 2: 4 ops** Lesson 1 – Using Mixed Operations

5 Chapter 2: Four operations of whole numbers					
Lesson 2 – Using Mixed Operations	Lesson 3: Multiplying by Two-Digit Numbers	Lesson 4: Multiplying by Two-Digit Numbers	Lesson 5: Multiplying by Two-Digit Numbers	Lesson 6: Multiplying by Two-Digit Numbers	Lesson 7: Multiplying by Two-Digit Numbers

6 Chapter 2: Four operations of whole numbers					
Lesson 8: Estimating Products of Large Numbers	Lesson 9: Dividing by Two-Digit Numbers	Lesson 10: Dividing by Two-Digit Numbers	Lesson 11: Dividing by Two-Digit Numbers	Lesson 12: Dividing by Two-Digit Numbers	Lesson 13: Dividing by Two-Digit Numbers

7 Chapter 2: Four operations of whole numbers					
Additional lesson Revisit multiplication and /or division methods	Lesson 17: Finding Common Multiples To find common multiples in real-life situations; to use common multiples in tandem with knowledge of time.	Lesson 18: Finding Common Multiples To use common multiples to solve problems; to organise maths thinking into tables and lists.	Lesson 19: Finding Common Factors To find the largest common factor of 3-digit numbers; to use multiplication & division for largest common factors.	Lesson 21: Finding Prime Numbers To use prime numbers to create other numbers; to explore prime numbers above 100.	Consolidation
Learn the strategy: Multiplication Multiplication strategy Multiplication strategy 2 Division Division strategy	Learn the strategy: https://classroom.thenational.academy/lessons/understand-the-terms-common-factor-and-common-multiple-as-properties-of-a-number-cdk68c?step=2&activity=video			Learn the strategy: 6wv34fhttps://teachers.thenational.academy/lessons/identify- properties-of-numbers-6wv34f	Learn the strategy: Check understanding from previous lessons.

Year 6 home learning overview 2020-21

8 Fractions					
Recap year 5	**Recap year 5**	**Chapter 3: Fractions**		**Recap year 5**	**Chapter 3: Fractions**
Book 5A, **Chapter 3:** Lesson 6: **Finding Square and Cube Numbers** To be able to create and determine square and cube numbers.	**Book 5A, Chapter 6: Fractions** **Lesson 3: Finding Equivalent Fractions** To find equivalent fractions using pictorial methods.	**Lesson 1: Simplifying Fractions** To use concrete materials to simplify fractions; to recognise equivalence in fractions to 1⁄4.	**Lesson 2: Simplifying Fractions** To simplify fractions using division and common factors; to represent fractions using concrete materials and pictorial.	**Book 5A, Chapter 6: Lesson 6: Comparing and Ordering Fractions** To compare mixed numbers using pictorial; to find common denominators where one fraction is common for all.	**Lesson 3: Comparing and Ordering Fractions** To compare fractions and place them in order from smallest to largest.
Learn the strategy: **Square and cube numbers** https://classroom.thenational.academy/lessons/to-investigate-and-explain-cubed-numbers-6hh38r?step=2&activity=video	**Learn the strategy:** **From 1minute 5 seconds** https://classroom.thenational.academy/lessons/understanding-equivalence-75hkge?activity=video&step=2	**Learn the strategy:** https://classroom.thenational.academy/lessons/finding-equivalent-fractions-ctgp4r?activity=video&step=2		**Learn the strategy:** **Comparing unit fractions:** https://classroom.thenational.academy/lessons/compare-and-order-unit-fractions-68u34e?activity=video&step=2	**Learn the strategy:** https://classroom.thenational.academy/lessons/compare-fractions-less-than-one-c4ukcc?activity=video&step=2
9 Chapter 3: Fractions		**Recap year 4**	**Recap year 4**	**Recap year 5**	**Recap year 5**
Lesson 4: Comparing and Ordering Fractions To compare and order fractions by finding common denominators.	**Lesson 5: Comparing and Ordering Fractions** To compare and order fractions using common factors.	**Book 4A, Chapter 6: Lesson 10: Adding Fractions** To add fractions with the same denominator (simplest form).	**Book 4A, Chapter 6: Lesson 12: Subtracting Fractions** To subtract fractions (Equivalence).	**Book 5A, Chapter 6: Lesson 11: Adding Fractions** To add unlike fractions which create improper fractions and mixed numbers to simplify	**Book 5A, Chapter 6: Lesson 14: Subtracting Fractions** To subtract fractions and mixed numbers from mixed numbers w' different denominators.
Learn the strategy: **(as yesterday)** https://classroom.thenational.academy/lessons/compare-fractions-less-than-one-c4ukcc?activity=video&step=2	**Learn the strategy:** https://classroom.thenational.academy/lessons/compare-fractions-greater-than-one-c8vkgr?activity=video&step=2	**Learn the strategy:** https://classroom.thenational.academy/lessons/fractions-adding-fractions-with-the-same-denominator-c9k3jc?activity=video&step=2	**Learn the strategy:** https://classroom.thenational.academy/lessons/fractions-subtracting-fractions-with-the-same-denominator-c9jker?activity=video&step=2	**Learn the strategy:** https://classroom.thenational.academy/lessons/add-fractions-cnk3ar?activity=video&step=2 **Or use the beginning:** https://vimeo.com/421130760/8fc5aefb22	**Learn the strategy:** **Subtracting fractions:** https://classroom.thenational.academy/lessons/subtract-fractions-6hh66r?activity=video&step=2 **Or use the beginning:** https://vimeo.com/421130760/8fc5aefb22
10 Chapter 3: Fractions					**Recap fractions of amounts reinforcing 'of' means multiply** **Complete the lessons from the links below:**
Lesson 6: Adding and Subtracting Fractions Adding and subtracting fractions with different denominators; using pictorial to compare fractions and add/subtract.	**Lesson 7: Adding and Subtracting Fractions** To add & subtract fractions with different denominators; to develop questions and word problems.	**Lesson 8: Adding and Subtracting Fractions** To add and subtract fractions with different denominators.	**Lesson 9: Adding and Subtracting Fractions** To add & subtract mixed numbers, including fractions different denominators; to subtract from the whole and add the remainder back on.	**Lesson 10: Adding and Subtracting Fractions** To add and subtract fractions with different denominators; to add and subtract mixed numbers.	
Learn the strategy: **Adding fraction:** https://classroom.thenational.academy/lessons/add-fractions-cnk3ar?activity=video&step=2 **Subtracting fractions:** https://classroom.thenational.academy/lessons/subtract-fractions-6hh66r?activity=video&step=2 **Or use the beginning:** https://vimeo.com/421130760/8fc5aefb22					**Learn the strategy:** **Unit fractions of amounts:** https://classroom.thenational.academy/lessons/to-find-unit-fractions-of-a-given-quantity-61k34t **Non-unit fractions of amounts:** https://classroom.thenational.academy/lessons/finding-non-unit-fractions-of-quantities-c5jp4d

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11 Fractions	Chapter 3: Fractions				
Recap year 5 **Book 5A,** Chapter 6: Lesson 17: **Multiplying Mixed Numbers** To multiply mixed numbers by whole numbers, creating larger mixed numbers.	**Lesson 11: Multiplying Fractions** To multiply fractions using pictorial representations and abstract methods.	**Lesson 12: Multiplying Fractions** To determine if the commutative law applies to fractions; to multiply fractions using concrete and pictorial.	**Lesson 13: Multiplying Fractions** To use concrete to understand & solve the multip'n of fractions; to simplify equations using pattern blocks.	**Lesson 14: Dividing a Fraction by a Whole Number** To divide a fraction by a whole number; to use pictorial to divide whole numbers into fractions.	**Lesson 15: Dividing a Fraction by a Whole Number** To divide fractions by whole nos. using concrete & pictorial; to divide fractions when the numerator & divisor are not easily divisible.
Learn the strategy:(from 2 minutes 15 seconds to 3 minutes) https://vimeo.com/421130760/8fc5aefb22 **Or use:** https://classroom.thenational.academy/lessons/fractions-represent-multiplication-with-proper-fractions-c9h64e?step=1&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/fractions-represent-multiplication-with-proper-fractions-c9h64e?step=1&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/fractions-multiply-pairs-of-proper-fractions-c4rp4r?step=2&activity=video	**Learn the strategy: (from 3 minutes)** https://vimeo.com/421130760/8fc5aefb22	**Learn the strategy** https://classroom.thenational.academy/lessons/fractions-divide-a-proper-fraction-by-an-integer-6tjkgd?step=2&activity=video	

12 Fractions					
Chapter 3: Fractions	Additional lesson	Chapter 4: Decimals			Recap year 5
Lesson 16: Dividing a Fraction by a Whole Number To divide fractions by a whole number; to use pictorial representations to support division.	**Embed fractions Using the chapter review**	**Lesson 1: Writing and Reading Decimals** To read and write decimals to thousandths; to use concrete materials to represent decimals.	**Lesson 2: Dividing Whole Numbers** To divide whole numbers by larger whole numbers; to use Dienes to represent 1/10s, 1/100s & 1/1000s.	**Lesson 3: Dividing Whole Numbers** To divide whole numbers making decimals; calculate decimal fraction equivalents long division. METHOD 2	**Book 5B,** Chapter 7: **Lesson 7: Writing Fractions as Decimals** To write fractions as decimals.
Learn the strategy: **Use the video from the previous day:** https://classroom.thenational.academy/lessons/fractions-divide-a-proper-fraction-by-an-integer-6tjkgd?step=2&activity=video **Or: (from 3 minutes)** https://vimeo.com/421130760/8fc5aefb22	**Learn the strategy:** **Complete the online lesson:** https://classroom.thenational.academy/lessons/fractions-multiply-and-divide-with-improper-fractions-74tk8c	**Learn the strategy: (up to 5 minutes and 18 seconds)** https://classroom.thenational.academy/lessons/decimals-and-measures-to-generate-and-describe-linear-number-6xh3je?step=1&activity=video **Or use:** https://classroom.thenational.academy/lessons/place-value-to-3-decimal-places-6crpat?step=2&activity=video	**Learn the strategy: (from 9 minutes and 8 seconds)** https://classroom.thenational.academy/lessons/multiply-and-divide-by-10-100-and-1000-involving-decimals-64wk6r?step=2&activity=video		**Learn the strategy: (up to 9 minutes and 18 seconds)** https://classroom.thenational.academy/lessons/decimal-equivalents-of-fractions-cnh32r?step=2&activity=video

13 Chapter 4: Decimals					
Lesson 4: Writing Fractions as Decimals To convert fractions into decimals using bar models and long division.	**Lesson 5: Writing Fractions as Decimals** To write fractions as decimals; to use long division as the key strategy *(MNP Key Lesson)*	**Lesson 6: Multiplying Decimals** To multiply decimals by whole numbers using partitioning or the worded method.	**Lesson 7: Multiplying Decimals** To multiply whole numbers including decimal by whole numbers; to use partitioning & worded method.	**Lesson 8: Multiplying Decimals** To multiply decimals by whole numbers including regrouping and renaming.	**Lesson 9: Multiplying Decimals** To multiply decimals by whole numbers using methods; to use the heuristic 'making a list' to help solve a problem.
Learn the strategy: https://classroom.thenational.academy/lessons/decimal-equivalents-of-fractions-cnh32r?step=2&activity=video		**Learn the strategy:** https://classroom.thenational.academy/lessons/multiply-a-decimal-number-by-a-whole-number-6mwpcd?step=2&activity=video **Or use: (from 40 seconds)** https://vimeo.com/421130951/7363b38b78		**Learn the strategy: (up to 13 minutes and 5 seconds)** https://classroom.thenational.academy/lessons/use-formal-written-methods-for-short-multiplication-including-multiplying-decimals-6rvp2r?step=2&activity=video	

14 Time available for catch of Autumn term learning