Year 6 home learning overview

Quality First Education Trust

1 Chapter 1: Numbers to 10 Million					
Recap year 5 Book 5A, Ch.1, Lesson 12: Rounding Numbers	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	Lesson 4: Comparing Numbers to 10 Million	Lesson 5: Comparing and Ordering Numbers to 10 Million
2 Chapter 1: Numbers to 1 000 000					
Lesson 6: Rounding Numbers	Lesson 7: Rounding Numbers	Additional lesson: Embed rounding to the nearest 10, 100, 1000, etc	Recap year 5 Whole Numbers: Addition and Subtraction Book 5A, Chapter 2: Lesson 5: Adding within 1 000 000	Recap year 5 Book 5A, Chapter 2, Lesson 9: Subtracting within 1 000 000	Recap year 5 Book 5A, Chapter 3: Lesson 9: Multiplying 4-Digit Numbers
3 Recap year 5: 4-operations					
Recap year 5 Book 5A, Chapter 3: Lesson 10: Multiplying 4-Digit Numbers	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 19: Dividing with Remainder	Additional lesson: Embed formal multiplication and division	Lesson 1 – Using Mixed Operations
4 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
5 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
6 Chapter 2: Four operations of whole numbers					
Additional lesson Revisit multiplication methods	Additional lesson Revisit multiplication 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.
<u>Learn the strategy:</u> **Multiplication** Multiplication strategy Multiplication strategy 2	<u>Learn the strategy:</u> **Division** Division strategy	<u>Learn the strategy:</u> **https://classroom.thenational.academy/lessons/understand-the-terms-common-factor-and-common-multiple-as-properties-of-a-number-cdk68c?step=2&activity=video**			<u>Learn the strategy:</u> 6wv34thttps://teachers.thenational.academy/lessons/identify- <u>properties-of-numbers-</u>6wv34t

7 Chapter 2: Four operations of whole numbers | Chapter 3: Fractions

Additional lesson: Consolidation & Review To review our understanding of multiples & factors; multiply & divide by 10, 100, 1000; mental strategies for calculation & consolidating formal methods.	Additional lesson: Recap year 5: Bk 5A, Ch 3: Lesson 6: Finding Square & Cube Numbers To create & determine square & cube numbers.	REVIEW: Chapter 1: Numbers to 10,000,000	Additional lesson: Recap year 4: Bk 4A, Ch 6: Lesson 3: Showing Mixed Numbers on a Number Line To show mixed number fractions on a number line.	Additional lesson: Recap year 4: Bk 4A, Ch 6: Lesson 5: Finding Equivalent Fractions To find equivalent fractions (further practise).	Additional lesson: Recap year 4: Bk 4A, Ch 6: Lesson 7: Simplifying Improper Fractions To simplify improper fractions.
Complete the online lesson: https://classroom.thenational.academy/lessons/consolidation-and-review-ccr62t	**Learn the strategy: Square and cube numbers** https://classroom.thenational.academy/lessons/to-investigate-and-explain-cubed-numbers-6hh38r?step=2&activity=video	Use the strategies we have learnt in this chapter to complete the review. Go back to watch the videos if you are not sure.	**Learn the strategy: (up to 5 minutes and 57 seconds)** https://classroom.thenational.academy/lessons/ordering-fractions-c4vp6r?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/equivalent-fractions-chk6ar?step=1&activity=video **Or:** https://classroom.thenational.academy/lessons/finding-equivalent-fractions-ctgp4r?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/using-improper-fractions-6ru62c?step=2&activity=video

Break for half term

8 Chapter 3: Fractions

Additional lesson: Recap year 4: Bk 4A, Ch 6: Lesson 9: Adding Fractions To add fractions (recording answers as a mixed number).	Additional lesson: Recap year 4: Bk 4A, Ch 6: Lesson 10: Adding Fractions To add fractions with same denominator (simplest form).	Additional lesson: Recap year 4: Bk 4A, Ch 6: Lesson 12: Subtracting Fractions To subtract fractions (Equivalence).	Additional lesson: Fractions of quantities 1 To find fractions of a quantity and link this to division.	Additional lesson: Fractions of quantities (Part 2) To find fractions of measurements and in different contexts.	Additional lesson: Recap year 5: Bk 5A, Ch 6: Lesson 3: Finding Equivalent Fractions To find equivalent fractions using pictorial methods.
Learn the strategy: https://classroom.thenational.academy/lessons/adding-fractions-with-a-total-greater-than-one-cgw66c?step=2&activity=video **Recapping using mixed numbers if needed:** https://classroom.thenational.academy/lessons/using-mixed-numbers-61hkad?step=2&activity=video **Recapping converting between mixed numbers and improper fractions:** https://classroom.thenational.academy/lessons/converting-mixed-numbers-into-improper-fractions-60rket?step=2&activity=video	**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 **Recapping equivalent fractions:** https://classroom.thenational.academy/lessons/recognising-equivalent-fractions-6rrkjr?step=2&activity=video	**Complete the online lesson:** https://classroom.thenational.academy/lessons/fractions-of-quantities-1-6wuk6r	**Complete the online lesson:** https://classroom.thenational.academy/lessons/fractions-of-quantities-part-2-cmt36t	**Learn the strategy:** https://vimeo.com/419603258/19e2699144

Year 6 home learning overview

9 Chapter 3: Fractions					
Additional lesson: **Recap year 5: Bk 5A, Ch 6: Lesson 6: Comparing and Ordering Fractions** To compare mixed numbers using pictorial; find common denominators where one fraction is common denominator for all.	Additional lesson: **Recap year 5: Book 5A, Chapter 6: Lesson 11: Adding Fractions** To add unlike fractions which create improper fractions and mixed numbers to simplify	Additional lesson: **Recap year 5: Book 5A, Chapter 6: Lesson 14: Subtracting Fractions** To subtract fractions and mixed numbers from mixed numbers w' different denominators.	Additional lesson: **Recap year 5: Book 5A, Chapter 6: Lesson 17: Multiplying Mixed Numbers** To multiply mixed numbers by whole numbers, creating larger mixed numbers.	Additional lesson: **Investigating Roman Numerals up to 1000** To write the corresponding Roman numerals for values to1000.	REVIEW: **Chapter 2:** **Four operations of whole numbers**
Learn the strategy: https://vimeo.com/419603289/dc82b56714	**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	**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	**Complete the online lesson:** https://classroom.thenational.academy/lessons/investigating-roman-numerals-up-to-1000-61k32r	Use the strategies we have learnt in this chapter to complete the review. Go back to watch the videos if you are not sure.

10 Chapter 3: Fractions					
Additional lesson: **Recap fractions of amounts reinforcing 'of' means multiply**	**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.	**Lesson 3: Comparing and Ordering Fractions** To compare fractions and place them in order from smallest to largest.	**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.
Complete the online lesson: **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**	**Learn the strategy:** **https://classroom.thenational.academy/lessons/finding-equivalent-fractions-ctgp4r?activity=video&step=2**		**Learn the strategy:** **https://classroom.thenational.academy/lessons/compare-fractions-less-than-one-c4ukcc?activity=video&step=2**	**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**

Year 6 home learning overview

11 Chapter 3: Fractions

Lesson 6: Adding & 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 & Subtracting Fractions** To add & subtract mixed numbers, incl 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.	**Lesson 11: Multiplying Fractions** To multiply fractions using pictorial representations and abstract methods.
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:(from 2 mins 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

12 Chapter 3: Fractions

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 multiplication 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 numbers; to divide fractions when the numerator & divisor are not easily divisible.	**Lesson 16: Dividing a Fraction by a Whole Number** To divide fractions by a whole number; to use pictorial representations to support division.	**REVIEW: Chapter 3: Fractions**
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	**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	Use the strategies we have learnt in this chapter to complete the review. Go back to watch the videos if you are not sure.

13 Chapter 4: Decimals

Additional lesson: Embed Improper fractions (Part 2) To convert between improper fractions and mixed numbers.	**Additional lesson: Embed fractions**	**Additional lesson: Ordering fractions** To organise fractions of different denominators in ascending & descending order. To compare fractions using > & < statements.	**Additional lesson: Recap year 4: Ch 8: Lesson 11: Comparing and Ordering Decimals** To compare and order decimal numbers.	**Additional lesson: Recap year 4: Ch 8: Lesson 14: Rounding Decimals** To round decimal numbers.	**Additional lesson: Recap year 5: Bk 5B, Ch 7: Lesson 6: Comparing Decimals** To compare and order decimals of amounts.
Complete the online lesson: https://classroom.thenational.academy/lessons/improper-fractions-part-2-64upad	**Complete the online lesson:** https://classroom.thenational.academy/lessons/fractions-multiply-and-divide-with-improper-fractions-74tk8c	**Complete the online lesson:** https://classroom.thenational.academy/lessons/ordering-fractions-c4vp6r	**Learn the strategy:** https://www.khanacademy.org/math/4th-engage-ny/engage-4th-module-6/4th-module-6-topic-c/v/comparing-decimals-with-hundredths	**Learn the strategy:** https://classroom.thenational.academy/lessons/rounding-decimals-part-2-64t38t?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/comparing-and-ordering-ccwk0r?step=2&activity=video

Year 6 home learning overview

14 Chapter 4: Decimals					
Additional lesson: **Recap year 5: Bk 5B, Ch 7: Lesson 7: Writing Fractions as Decimals** To write fractions as decimals.	**Lesson 1: Writing and Reading Decimals** To read and write decimals to thousandths; to use concrete materials to represent decimals.	**Additional lesson:** **Decimal equivalents of fractions** In this lesson, we will be learning how to convert fraction to decimal using different strategies.	**Catch up time**	**Catch up time**	**Catch up time**
Learn the strategy: (up to 9 minutes and 18 seconds) https://classroom.thenational.academy/lessons/decimal-equivalents-of-fractions-cnh32r?step=2&activity=video	**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	**Complete the online lesson:** https://classroom.thenational.academy/lessons/decimal-equivalents-of-fractions-cnh32r	Revisit any worksheets that have not been completed so far from this half term.	Revisit any worksheets that have not been completed so far from this half term.	Revisit any worksheets that have not been completed so far from this half term.
Break for Christmas holiday					