Year 4 spring home learning overview

Quality First Education Trust

1 Spring term 1 Chapter 4: Further multiplication and division					
Bank Holiday	**INSET day**	**ADDITIONAL LESSON: Recap multiplication and division**	**ADDITIONAL LESSON: Consolidating multiplication strategies** To consolidate different multiplication strategies & apply different methods in reasoning questions.	**Lesson 15: Dividing 3-Digit Numbers** Divide 3-digit numbers.	**Lesson 16: Dividing 3-Digit Numbers** Divide 3-digit numbers with remainders.
		Learn the strategy: Multiplication methods: https://vimeo.com/433570438/182be9a43e https://vimeo.com/433792558/5bdd26d050 **Complete the online lesson:** https://classroom.thenational.academy/lessons/multiplying-3-digit-numbers-by-1-digit-numbers-6ctkjd	**Complete the online lesson:** https://classroom.thenational.academy/lessons/consolidating-multiplication-strategies-70w6ce	**Learn the strategy:** https://vimeo.com/435656890/883be87169	**Learn the strategy:** https://vimeo.com/433572835/939d4f6861

2 Chapter 4: Further multiplication and division				**Chapter 5: Graphs**	
ADDITIONAL LESSON: Recap Representing 2-Step Word Problems To explore how to represent two-step word problems using bar models; identifying bar models representing division or multiplication equations.	**Lesson 17: Solving Word Problems** To solve multiplication and division word problems.	**Lesson 18: Solving Word Problems** To solve multiplication and division word problems (multi-step).	**REVIEW: Chapter 4: Multiplication & division**	**ADDITIONAL LESSON: Recap Year 3: Ch10: Lesson 3: Reading Bar Graphs** To read and interpret information from a bar graph; to use and understand vocabulary related to bar graphs.	**Lesson 1: Drawing and Reading Picture Graphs and Bar Graphs** To draw and read picture graphs & bar graphs.
Complete the online lesson: https://classroom.thenational.academy/lessons/representing-2-step-word-problems-6nhkgt	**Learn the strategy: Multiplication recap:** https://vimeo.com/433570438/182be9a43e https://vimeo.com/433792558/5bdd26d050 **Division recap:** https://vimeo.com/433572835/939d4f6861		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:** https://classroom.thenational.academy/lessons/reading-and-interpreting-bar-graphs-chhk6c?step=2&activity=video **Or:** https://vimeo.com/410210106/48511db543	**Learn the strategy:** https://classroom.thenational.academy/lessons/interpreting-and-presenting-data-in-pictograms-and-bar-charts-6tk3ar?step=2&activity=video

3 Chapter 5: Graphs					**Fractions: Recap Yr 3,**
Lesson 2: Drawing and Reading Bar Graphs To draw and read bar graphs.	**Lesson 3: Drawing and Reading Line Graphs** To draw and read line graphs.	**Lesson 4: Drawing and Reading Line Graphs** To draw and read a line graph.	**Lesson 5: Drawing and Reading Line Graphs** To draw and read line graphs (drawing focus).	**REVIEW: Chapter 5: Graphs**	**ADDITIONAL LESSON: Recap year 3 fractions: textbook 3B, Ch.11, Lesson 1: Counting in Tenths** To count in tenths; to recognise tenths and be able to determine how many tenths are shaded.
Learn the strategy: https://classroom.thenational.academy/lessons/bar-charts-6hh3gr?activity=video&step=1	**Learn the strategy:** https://classroom.thenational.academy/lessons/read-and-interpret-time-graphs-6mvp6e?step=1&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/comparing-time-graphs-64t3ad?step=1&activity=video	**Learn the strategy: (up to 17 minutes)** https://classroom.thenational.academy/lessons/reading-and-interpreting-line-graphs-cgtkad?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:** https://vimeo.com/412245221/90c9d59c28

4 Fractions: Recap Year 3, textbook 3B					
ADDITIONAL LESSON: Recap year 3 fractions: Ch.11, Lesson 3: Adding Fractions To add fractions with the same denominator.	**ADDITIONAL LESSON:** Recap year 3 fractions: Ch.11, Lesson 5: Subtracting Fractions To subtract fractions with the same name.	**ADDITIONAL LESSON:** Recap year 3 fractions: Ch.11, Lesson 9: Finding Equivalent Fractions To find fractions equivalent to 1/2; use pictorial and multiplication to show equivalence.	**ADDITIONAL LESSON:** Recap year 3 fractions: Ch.11, Lesson 10: Finding Equivalent Fractions To find equivalent fractions using concrete objects and pictorial representations.	**ADDITIONAL LESSON:** Recap year 3 fractions: Ch.11, Lesson 12: Finding the Simplest Fraction To find the simplest fraction using visualisation and concrete materials.	**ADDITIONAL LESSON:** Recap year 3 fractions: Ch.11, Lesson 16: Comparing Fractions To compare fractions using pictorial representations; to understand the numerical nature of the numerator.
Learn the strategy: https://vimeo.com/414683843/03a266864b https://vimeo.com/412710096/93cb56f6f9	**Learn the strategy:** https://vimeo.com/413036415/c5a4e1daa8	**Learn the strategy:** https://vimeo.com/415104079/76c4efc622	**Learn the strategy:** https://vimeo.com/417546470/33ec45a471	**Learn the strategy:** https://vimeo.com/417571675/8b956b3cbe	**Learn the strategy:** https://vimeo.com/417234426/0e869afbf9
5 Fractions: Recap Year 3, textbook 3B					**Ch.6: Fractions**
ADDITIONAL LESSON: Recap year 3 fractions: Ch.11, Lesson 18: Adding Fractions To add fractions using pictorial representations; to simplify fractions after adding them.	**ADDITIONAL LESSON:** Recap year 3 fractions: Ch.11, Lesson 19: Subtracting Fractions To subtract fractions using pictorial representations; to simplify fractions after they have been subtracted.	**ADDITIONAL LESSON:** Recap year 3 fractions: Ch.11, Lesson 20: Subtracting Fractions To subtract fractions from a whole amount; to use pictorial representations of whole numbers to help subtract fractions.	**ADDITIONAL LESSON:** Yr3, Ch.11, Lesson 22: Finding Part of a Set To find a fraction of a whole number using pictorial representations, multiplication and concrete objects.	**ADDITIONAL LESSON:** Yr 3, Ch.11, Lesson 23: Finding the Fraction of a Number To consolidate finding the fraction of a whole number.	**Lesson 1: Counting in Hundredths** To count in hundredths.
Learn the strategy: https://vimeo.com/418053312/1280e10df4	**Learn the strategy:** Subtracting fractions: https://vimeo.com/413036415/c5a4e1daa8 Simplifying fractions: https://vimeo.com/417571675/8b956b3cbe	**Learn the strategy:** https://classroom.thenational.academy/lessons/fractions-subtracting-fractions-with-the-same-denominator-c9jker?step=2&activity=video	**Learn the strategy:** https://vimeo.com/419958568/e1003a04ea	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-find-unit-fractions-of-a-given-quantity-61k34t?step=2&activity=video **And: (up to 5 minutes and 20 seconds)** https://classroom.thenational.academy/lessons/calcuting-non-unit-fractions-of-quntities-70u3jd?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/tenths-and-hundredths-6nj68c?step=2&activity=video
6 Chapter 6: Fractions				**Catch up time**	
Lesson 2: Writing Mixed Numbers To write mixed number fractions.	**Lesson 3: Showing Mixed Numbers on a Number Line** To show mixed number fractions on a number line.	**Lesson 4: Finding Equivalent Fractions** To find equivalent fractions.	**Lesson 5: Finding Equivalent Fractions** To find equivalent fractions (further practise).	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.
Learn the strategy: (up to 4 minutes and 37 seconds) https://classroom.thenational.academy/lessons/improper-fractions-part-2-64upad?step=2&activity=video	**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/fractions-recognising-equivalent-fractions-2-ccr38c?step=2&activity=video **Or:** https://classroom.thenational.academy/lessons/equivalent-fractions-cgt66c?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		
Half term break					

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7	Spring term 2 Fractions: Recap Year 3, textbook 3B				
Lesson 6: Simplifying Mixed Numbers To simplify mixed number fractions.	**Lesson 7: Simplifying Improper Fractions** To simplify improper fractions.	**Lesson 8: Adding Fractions** To add fractions.	**Lesson 9: Adding Fractions** To add fractions (recording answers as a mixed number).	**Lesson 10: Adding Fractions** To add fractions (simplest form).	**Lesson 11: Subtracting Fractions** To subtract fractions.
Learn the strategy: https://classroom.thenational.academy/lessons/simplifying-fractions-68v68t?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/using-improper-fractions-6ru62c?step=2&activity=video	**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/subtracting-fractions-2-71k34d?step=2&activity=video

8	Chapter 6: Fractions				
Lesson 12: Subtracting Fractions To subtract fractions (equivalence). *(Could use L13 for deepening)*	**ADDITIONAL LESSON: Calculating non-unit fractions of quantities** To solve word problems; to find non-unit fractions of quantities.	**ADDITIONAL LESSON: Using Equivalence to 1 to Compare Non-Unit Fractions** To compare two fractions using knowledge of equivalence to 1 whole.	**REVIEW: Chapter 6: Fractions**	**ADDITIONAL LESSON: Recap word problems** To use bar models to represent two-step addition & subtraction word problems.	**ADDITIONAL LESSON: Recap word problems & bar models** To recap our knowledge of how to use bar models
Recap the strategy: https://classroom.thenational.academy/lessons/fractions-subtracting-fractions-with-the-same-denominator-c9jker?step=2&activity=video **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/calculating-non-unit-fractions-of-quantities-cmtp4e	**Complete the online lesson:** https://classroom.thenational.academy/lessons/using-equivalence-to-1-to-compare-non-unit-fractions-cnk62r	Use the strategies we have learnt in this chapter to complete the review. Go back to watch the videos if you are not sure.	**Complete the online lesson:** https://classroom.thenational.academy/lessons/solving-two-step-word-problems-69k3gr	**Complete the online lesson:** https://classroom.thenational.academy/lessons/applying-and-consolidating-word-problems-and-bar-models-70rkcc

9			Chapter 7: Time		
ADDITIONAL LESSON: Short division (Part 1) To explore how to use the short division algorithm with regrouping in one place value column.	**ADDITIONAL LESSON: Short division (Part 2)** To explore how to use the short division algorithm with multiple regroups.	**ADDITIONAL LESSON: Recap using all four operations** To solve a multi-step problem using all four operations; addition, subtraction, multiplication and division.	**ADDITIONAL LESSON: Year 3, Ch.9, Lesson 3: Telling the Time** To consolidate and apply a variety of vocabulary used to express the time.	**ADDITIONAL LESSON: Year 3, Ch.9, Lesson 4: Telling the Time** To compare analogue and digital time; to represent time using both analogue and digital methods.	**ADDITIONAL LESSON: Year 3, Ch.9, Lesson 5: Telling the Time** To tell time before the hour using the hour and minute hands.
Complete the online lesson: https://classroom.thenational.academy/lessons/short-division-part-1-6gr6ar **Division methods:** https://vimeo.com/433572835/939d4f6861	**Complete the online lesson:** https://classroom.thenational.academy/lessons/short-division-part-2-6nk66c	**Complete the online lesson:** https://classroom.thenational.academy/lessons/problem-solving-using-all-four-operations-69k32d	**Learn the strategy: (up to 10 minutes and 3 seconds)** https://classroom.thenational.academy/lessons/reading-and-ordering-time-presented-in-different-ways-64uk8c?step=1&activity=video	**Learn the strategy:** **Analogue clock:** https://classroom.thenational.academy/lessons/reading-analogue-time-to-the-nearest-minute-cdgkjd?step=2&activity=video **Digital clock:** https://classroom.thenational.academy/lessons/telling-minutes-past-on-a-digital-clock-cguk2c?step=2&activity=video	

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10 Chapter 7: Time					
Lesson 1: Telling Time on a 24-Hour Clock To tell the time on a 24-hour clock.	**Lesson 2: Changing Time in Minutes to Seconds** To convert between minutes and seconds.	**Lesson 3: Changing Time in Hours to Minutes** To convert between hours and minutes.	**Lesson 4: Solving Problems on Duration of Time** To solve time problems.	**Lesson 5: Changing Years to Months and Weeks to Days** To convert between units of time.	**Lesson 6: Solving Word Problems** To solve word problems (duration).
Learn the strategy: https://classroom.thenational.academy/lessons/reading-writing-and-converting-time-between-12-hour-and-24-hour-clocks-6hj66t?step=1&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/converting-between-hours-minutes-and-seconds-6djket?step=2&activity=video		**Learn the strategy:** https://classroom.thenational.academy/lessons/solving-word-problems-with-time-6ct3gc?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/converting-between-years-months-and-weeks-70rk2d?step=2&activity=video	**Learn the strategy: (recap)** https://classroom.thenational.academy/lessons/further-applying-knowledge-of-time-to-solve-problems-ctgkgd?step=1&activity=video
11 Chapter 8: Decimals					
REVIEW: Chapter 7: Time	**Lesson 1: Writing Tenths** To record tenths.	**Lesson 2: Writing Tenths** To record in tenths.	**Lesson 3: Writing Tenths** To record in tenths (in different ways).	**Lesson 4: Writing Hundredths** To write hundredths.	**Lesson 5: Writing Hundredths** To write hundredths.
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:** https://classroom.thenational.academy/lessons/recognising-decimal-tenths-part-1-ctgkcd?step=1&activity=video		**Learn the strategy:** https://classroom.thenational.academy/lessons/recognising-decimal-tenths-part-2-64upac?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/recognising-decimal-hundredths-part-1-c4v3ed?step=2&activity=video	
12 Chapter 8: Decimals			**Catch up time**		
Lesson 6: Writing Hundredths To write hundredths (in different ways).	**Lesson 7: Writing Hundredths** To record hundredths.	**Lesson 8: Writing Decimals** To write decimal numbers.	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.
Learn the strategy: (up to 3 minutes and 39 seconds) https://classroom.thenational.academy/lessons/decimal-number-bonds-c8vk4t?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/recognising-decimal-hundredths-part-2-cmukcd?step=2&activity=video				
Easter Holiday Break					