Year 5 home learning overview

1 Autumn term Chapter 1: Numbers to 1 000 000

| Recap year 4 Book 4A, Ch.1, Lesson 7: Comparing & Ordering Numbers | Lesson 1: Reading & Writing Numbers to 100 000. | Lesson 2: Reading & Writing Numbers to 1 000 000 | Lesson 3: Reading & Writing Numbers to 1 000 000 | Lesson 4: Comparing Numbers to 1 000 000 | Lesson 5: Comparing Numbers to 1 000 000 |

2 Chapter 1: Numbers to 1 000 000

| Lesson 6: Comparing Numbers to 1 000 000 | Lesson 7: Comparing Numbers to 1 000 000 | Additional lesson: Embed numbers to 1,000,000, positioning on a number line. | Lesson 8: Making Number Patterns | Lesson 9: Making Number Patterns | Recap year 4: Book 4A, Ch1, Lesson:14 Rounding numbers to estimate |

3 Chapter 1: Numbers to 1 000 000

| Lesson 10 over 2 days: Rounding Numbers | Lesson 10 over 2 days: Rounding Numbers | Lesson 11 over 2 days: Rounding Numbers | Lesson 11 over 2 days: Rounding Numbers | Lesson 12: Rounding Numbers over 2 days | Lesson 12: Rounding Numbers over 2 days |

4 Chapter 1 / Chapter 2: Whole Numbers: Addition and Subtraction

| REVIEW: Chapter 1: Numbers to 1 000 000 | Recap year 4 Book 4A, Ch.2, Ch.1, Lesson 5: Adding with Renaming | Recap year 4 Book 4A, Ch.2, Lesson 13: Subtracting with Renaming | Lesson 1: Counting On to Add | Lesson 2: Counting Backwards to Subtract | Lesson 3: Adding within 1 000 000 |

5 Chapter 2: Whole Numbers: Addition and Subtraction

| Lesson 4: Adding and Subtracting within 1 000 000 | Lesson 5: Adding within 1 000 000 | Lesson 6: Subtracting within 1 000 000 | Lesson 7: Adding and Subtracting within 1 000 000 | Lesson 9: Subtracting within 1 000 000 | Lesson 10: Part 1 Subtracting within 1 000 000 |

6 Chapter 2: Whole Numbers: Addition and Subtraction / Chapter 3: Multiplication and Division

| Lesson 10: Part 2 Subtracting within 1 000 000 | Additional lesson Embed addition and subtraction | Additional lesson Embed addition and subtraction | REVIEW: Chapter 2: Whole Numbers: Addition and subtraction | Recap year 4 Book 4A, Ch.4, Lesson 6: Multiplying 2-Digit Numbers | Recap year 4 Book 4A, Ch.4, Lesson 7: Multiplying 2-Digit Numbers |

7 Chapter 3: Multiplication and Division

| Recap year 4 Book 4A, Ch.4, Lesson 10: Multiplying 3-Digit Numbers To multiply 3-digit numbers (renaming). | Lesson 1: Finding Multiples (over 2 days) To consolidate and review multiplication; to find the result of multiplying by a number. | Lesson 1: Finding Multiples (over 2 days) . | Lesson 2: Finding Factors (over 2 days) To consolidate and review multiplication; to find the numbers we can multiply by to get a number. | Lesson 2: Finding Factors (over 2 days) | Catch up time |
| Learn the strategy: Multiplication [Multiplication strategy] [Multiplication strategy 2] | Learn the strategy: https://classroom.thenational.academy/lessons/multiples-and-factors-6gr32d?step=1&activity=video | | | | Complete any unfinished or missed worksheets from this half term. |

Break for half term

Year 5 home learning overview

8 Chapter 3: Multiplication and Division

Lesson 3: Finding Common Factors	Lesson 4: Finding Prime Numbers	Lesson 5: Finding Prime Numbers	Additional lesson: Identify properties of numbers	Lesson 6: Finding Square and Cube Numbers (over 2 days)	Lesson 6: Finding Square and Cube Numbers (over 2 days)
To define and find common factors of numbers to 100.	To identify & name the prime numbers; to recognise prime numbers as numbers that only have 2 factors.	To define and determine prime numbers to 100.	To identify prime and composite numbers.	To create and determine square and cube numbers.	To create and determine square and cube numbers.
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:** https://classroom.thenational.academy/lessons/prime-numbers-65j38e?step=2&activity=video		**Complete the online lesson:** https://classroom.thenational.aca demy/lessons/identify-properties-of-numbers-6wv34t	**Learn the strategy:** **https://classroom.thenational.academy/lessons/to-investigate-and-explain-cubed-numbers-6hh38r?step=2&activity=video**	

9 Chapter 3: Multiplication and Division

Lesson 7: Multiplying by 10, 100 and 1000	Lesson 8: Multiply 2-Digit & 3-Digit Numbers by a Single Digit	Lesson 9: Multiplying 4-Digit Numbers	Lesson 10: Multiplying 4-Digit Numbers	Lesson 12: Multiplying a 2-Digit Number by a 2-Digit Number	Lesson 13 : Multiply 2-Digit Number by a 2-Digit Number
To multiply 1- and 2-digit numbers by 10, 100 and 1000.	To multiply 2- and 3-digit numbers by a single-digit number using multiple strategies.	To multiply 4-digit numbers by single-digit numbers.	To multiply 4-digit numbers by single-digit numbers with regrouping, using a variety of strategies.	To multiply 2-digit numbers by 2-digit numbers using multiple methods.	To multiply 2-digit by 2-digit numbers using multiple methods, incl.grid method, no bonds & column method, with regrouping.
Learn the strategy: (up to 7 minutes and 45 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 to12 minutes and 32 seconds)** https://classroom.thenational.academy /lessons/short-multiplication-c8v64c?step=2&activity=video	**Learn the strategy: (from 12 minutes and 32 seconds)** https://classroom.thenational.academy.lessons/short-multiplication-c8v64c?step=2&activity=video		**Learn the strategy:** Multiplication strategy	**Learn the strategy:** https://classroom.thenational.aca demy/lessons/multiplying-a-3-digit-number-by-a-2-digit-number-cmwpae?step=2&activity=video

10 Chapter 3: Multiplication and Division

Lesson 14: Multiplying a 3-Digit Number by a 2-Digit Number	Additional lesson: Representing 2-digit by 2-digit multiplication	Additional lesson: Multiplying a 3-digit number by a 2-digit number	Additional lesson: Problem-solving with multiplication	Additional lesson: Recap, short division (Part 1)	Recap year 4 Book 4A, Ch.4, Lesson 14: Dividing 2-Digit Numbers with remainders.
To multiply a 3-digit number by a 2-digit number, using the grid method and column method as key strategies.	To develop our understanding of pictorial representations when multiplying by a 2-digit number and link this to formal method of long multiplication.	To develop our understanding of formal multiplication methods (long multiplication) and develop fluency multiplying 2-digits by 3-digits.	To review the various methods of multiplication: area, formal written method and mentally derived facts. To investigate which strategy is the most efficient for a variety of problems.	To explore how to use the short division algorithm with regrouping in one place value column.	Divide 2-digit numbers
Learn the strategy: https://classroom.thenational.aca demy/lessons/multiplying-a-3-digit-number-by-a-2-digit-number-cmwpae?step=2&activity=video	**Complete the online lesson:** **https://classroom.thenational.aca demy/lessons/representing-2-digit-by-2-digit-multiplication-c8wk4e**	**Complete the online lesson** https://classroom.thenational.aca demy/lessons/multiplying-a-3-digit-number-by-a-2-digit-number-cmwpae	**Complete the online lesson:** **https://classroom.thenational.aca demy/lessons/problem-solving-with-multiplication-6mwpat**	**Complete the online lesson:** https://classroom.thenational.aca demy/lessons/short-division-part-1-6gr6ar	**Division** Division strategy

Year 5 home learning overview

11 Chapter 3: Multiplication and Division

Recap year 4 Book 4A, Ch.4, Lesson 15: Dividing 3-Digit Numbers Divide 3-digit numbers.	Recap year 4 Book 4A, Ch.4, Lesson 16: Dividing 3-Digit Numbers Divide 3-digit numbers with remainders.	Lesson 16: Dividing by 10, 100 and 1000 To find thousands, hundreds and tens in a 4-digit number using concrete materials.	Lesson 17: Dividing 3-Digit and 4-Digit Numbers To divide 3- and 4-digit numbers by 1-digit numbers using number bonds and long division as the key methods.	Lesson 18: Dividing 4-Digit Numbers To divide 4-digit numbers by single-digit numbers, using number bonds and long division are the key strategies.	Lesson 19: Dividing with Remainder To divide 3-digit numbers by 1-digit numbers using long division, short division and mental methods that gives rise to remainders.
Learn the strategy: Division Division strategy		**Learn the strategy: (from 7 minutes and 45 seconds)** https://classroom.thenational.academy/lessons/multiply-and-divide-by-10-100-and-1000-involving-decimals-64wk6r?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/using-multiples-to-divide-6cw3gd?step=2&activity=video **AND:** https://classroom.thenational.academy/lessons/short-division-part-1-6gr6ar?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/short-division-part-2-6nk66c?step=2&activity=video	**Learn the strategy:** Short division: https://classroom.thenational.academy/lessons/short-division-6gt64d?step=2&activity=video

12 Chapter 3: Multiplication and Division | Chapter 5: Graphs

Additional lesson to embed division	REVIEW: Chapter 3: Multiplication and Division	Additional lesson: Recap year 3 Graphs: Book 3B, Chapter 10: Lesson 5: Reading Bar Graphs To read bar graphs where the scale is made up of larger increments.	Additional lesson: Recap year 4 Graphs: Book 4A, Chapter 5: Lesson 4: Drawing and Reading Line Graphs To draw and read a line graph.	Lesson 1: Reading Tables To read the information presented in a table and interpret its meaning.	Lesson 2: Reading Tables To read and respond to information presented in a table.
Complete the online lesson. https://classroom.thenational.academy/lessons/division-with-remainders-ccwk6r?step=2&activity=video	Complete the end of chapter review in the workbook.	**Learn the strategy:** **https://vimeo.com/409780655/edfab0f88f**	**Learn the strategy:** **https://classroom.thenational.academy/lessons/comparing-time-graphs-64t3ad?step=1&activity=video**	**Learn the strategy:** **https://classroom.thenational.academy/lessons/reading-timetables-6wwkgt?step=2&activity=video**	**Learn the strategy:** https://classroom.thenational.academy/lessons/calculating-time-intervals-on-timetables-c4w64c?step=2&activity=video

13 Chapter 5: Graphs

Lesson 3: Reading Tables To read and respond to tables with a variety of data sets.	Lesson 4: Reading Line Graphs To read and interpret information provided in a line graph where a single line represents the data.	Lesson 5: Reading Line Graphs To read and interpret the information presented in a line graph where the data is represented by more than one line.	Lesson 7: Reading Line Graphs To read & interpret information presented in a table & turn it into a line graph; to determine relationships between data sets.	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/timetables-questions-60rkar?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/interpreting-line-graphs-cmr3ec?step=1&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/reading-and-interpreting-line-graphs-cgtkad?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/tables-and-line-graphs-6xgk0t?step=2&activity=video	Complete the end of chapter review in the workbook.	**Learn the strategy:** **https://vimeo.com/412245221/90c9d59c28**

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14 Recapping fractions					
ADDITIONAL LESSON: **Recap year 3 fractions:** **Ch.11, Lesson 2: Making number pairs** To make number pairs to create 1; to combine fractions to make 1.	**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 8: Finding Equivalent Fractions** To find equivalent fractions; to place fractions on a number line.	**Catch up time**	**Catch up time**
Learn the strategy: https://vimeo.com/412341663/844 c400f2e	**Learn the strategy:** **https://vimeo.com/414683843/03a 266864b** **https://vimeo.com/412710096/93c b56f6f9**	**Learn the strategy:** **https://vimeo.com/413036415/c5a 4e1daa8**	**Learn the strategy:** **https://vimeo.com/415101199/90a 01e78bb**	Complete any unfinished or missed worksheets from this term.	Complete any unfinished or missed worksheets from this term.
Break for Christmas holiday					