

Year 6 summer home learning overview 2020-21

| Summer term 1 2020-21 | | | | | |
|--|---|---|---|---|---|
| 1 Recap and review week | | | | | |
| INSET day | Recap decimals and recap measures | Recap 4 operations word problems: | Recap percentage | Recap ratio | Recap algebra |
| | Learn the strategy: Complete the review of Chapter 4 (Decimals) and Chapter 5 (Measures) : Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure. | Learn the strategy: Complete the review of Chapter 6 (Word problems) : Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure. | Learn the strategy: Complete the review of Chapter 7 (Percentages) : Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure. | Learn the strategy: Complete the review of Chapter 8 (Ratio) : Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure. | Learn the strategy: Complete the review of Chapter 9 (Algebra) : Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure. |
| 2 Recap and review | | | Chapter 13: Position and Movement | | |
| Recap area and perimeter (Year 5, Ch 12) | Recap area and perimeter (Year 6, Ch 10) | Recap volume: (Year 5, Ch 13 & Year 6, Ch 11) | Recap geometry | Recap: Lesson 1: Showing Negative Numbers & Lesson 2: Describing Position | Lesson 3: Describing Position To describe the position of points using coordinates on a grid. |
| Learn the strategy: Complete the review of Chapter 12 (Bk 5B): Area and Perimeter Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure. | Learn the strategy: Complete the review of Chapter 10 (Bk 6B), Area and perimeter : Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure. | Learn the strategy: Complete the review of Chapter 13 (Bk 5B) and Chapter 11 (Bk 6B): Volume Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure. | Learn the strategy: Complete the review of Chapter 12 (Geometry) : Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure. | Learn the strategy: https://classroom.thenational.academy/lessons/negative-numbers-in-context-68f66c | Learn the strategy: https://vimeo.com/429428268/e97257c390 |
| 3 Chapter 13: Position and Movement | | | | | |
| May bank holiday | Lesson 4: Drawing Polygons on a Coordinate Grid To draw polygons on a coordinate grid; to recognise polygons on a coordinate grid. | Lesson 5: Describing Translations To describe the translation of shapes on a coordinate grid. | Lesson 6: Describing Reflections To describe reflection using a mirror line and the terms 'object' and 'image'. | Lesson 7: Describing Movements To describe the movement of objects using the terms 'translation' and 'reflection'. | Lesson 8: Describing Movements To describe the movement of objects using the terms 'translation' and 'reflection'. |
| | Learn the strategy: https://classroom.thenational.academy/lessons/describing-coordinate-positions-on-a-grid-6hgpaf?step=1&activity=video | Learn the strategy: https://classroom.thenational.academy/lessons/translating-simple-shapes-6hipaf?step=2&activity=video | Learn the strategy: https://classroom.thenational.academy/lessons/reflecting-simple-shapes-6mu3ec?step=2&activity=video | Learn the strategy: https://vimeo.com/429433263/f714294bed | |

Year 6 summer home learning overview 2020-21

| | | | | | |
|---|---|---|---|---|---|
| 4 | | | Recap graphs year 4 and 5 | | |
| Recap problem solving with addition and subtraction with decimal numbers | Recap dividing with remainders in different contexts (part 1) | Recap dividing with remainders in different contexts (part 2) | Recap reading tables, pictograms and bar charts: Bk 4A, Chapter 5, Graphs, Lesson 1: Drawing & reading Picture graphs & Bar graphs | Recap year 5 graphs, Chapter 5, Lesson 4: Reading Line Graphs To read and interpret information provided in a line graph where a single line represents the data. | Lesson 1: Understanding Averages To calculate the average (mean) of sets of values. |
| Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/applying-addition-and-subtraction-74tp2d | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/represent-remainders-in-different-ways-depending-on-the-context-of-the-problem-part-1-chj3et | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/represent-remainders-in-different-ways-depending-on-the-context-of-the-problem-part-2-ccu32d | Learn the strategy: https://classroom.thenational.academy/lessons/interpreting-and-presenting-data-in-pictograms-and-bar-charts-6tk3ar?step=2&activity=video | Learn the strategy: https://classroom.thenational.academy/lessons/interpreting-line-graphs-cmr3ec?step=1&activity=video | Learn the strategy: https://vimeo.com/425117781/1c09ed8f53 And: https://vimeo.com/425117859/697298bc90 |
| 5 Chapter 14: Graphs and averages | | | | | |
| Lesson 2: Calculating the Mean To calculate the mean. | Lesson 5: Showing Information on Graphs To show information on graphs; to transfer information from a table to a pie chart. | Lesson 6: Reading Pie Charts To read and interpret pie charts. | Lesson 7: Reading Pie Charts To read and interpret pie charts; to use percentages in pie charts. | Lesson 9: Reading Line Graphs To read line graphs; to interpret the information in line graphs. | Lesson 10: Reading Line Graphs To read & interpret line graphs; to answer questions about the graph information. |
| Learn the strategy: https://vimeo.com/425479084/0251b8b5d8 And: https://classroom.thenational.academy/lessons/interpret-mean-as-an-average-60t32d?step=1&activity=video | Learn the strategy: https://classroom.thenational.academy/lessons/tables-and-line-graphs-6xgk0t?step=2&activity=video And: https://classroom.thenational.academy/lessons/interpret-pie-charts-ccr6ad?step=1&activity=video | Learn the strategy: Reminder from yesterday: https://classroom.thenational.academy/lessons/interpret-pie-charts-ccr6ad?step=1&activity=video | Learn the strategy: https://classroom.thenational.academy/lessons/comparing-pie-charts-c5hpc?step=2&activity=video | Learn the strategy: https://classroom.thenational.academy/lessons/interpret-line-graphs-chk38d?step=2&activity=video | Learn the strategy: (up to 13 minutes and 18 seconds) https://classroom.thenational.academy/lessons/construct-line-graphs-74vk0d?step=2&activity=video |
| 6 | | Recap Roman Numerals | | Chapter 14: Roman Numerals | |
| Recap comparing fractions less than 1 | Recap fractions greater than 1 | Recap Roman numerals to 100 Year 4, Bk 4B, Chapter 14, Lesson 2 | Recap Roman numerals to 1000: year 5, Bk 5B, Chapter 14, lesson 2 | Lesson 1: Writing Roman Numerals to & in thousands To write Roman numerals to 1000. | Lesson 2: Writing Roman Numerals to & in thousands To write numbers in their thousands in Roman numerals. |
| Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/compare-fractions-less-than-one-c4ukcc | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/compare-fractions-greater-than-one-c8vkgr | Learn the strategy: https://classroom.thenational.academy/lessons/investigating-roman-numerals-up-to-100-6guk8c?step=2&activity=video | Learn the strategy: https://classroom.thenational.academy/lessons/solving-problems-involving-roman-numerals-6qt36d?step=2&activity=video | Learn the strategy: Reminder from yesterday https://classroom.thenational.academy/lessons/investigating-roman-numerals-up-to-1000-61k32r?step=2&activity=video | Learn the strategy: https://classroom.thenational.academy/lessons/solving-problems-involving-roman-numerals-6qt36d?step=2&activity=video |
| Half term | | | | | |

Year 6 summer home learning overview 2020-21

| Summer term 2 2020-21 | | | | | |
|---|--|---|---|---|---|
| 1 Revisiting prior learning to consolidate and embed | | | | | |
| Revisit problem solving with decimal amounts | Revisit formal division methods with remainders | Revisit formal methods using measures word problems (incl. converting measures) | Revisit representing fractions | Revisit comparing fractions | Revisit addition and subtraction of fractions |
| Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/problem-solving-with-decimals-in-context-60u3gd | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/solving-problems-involving-division-with-remainders-part-2-6muk4d | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/decimals-and-measures-solving-problems-including-the-conversion-of-standard-units-of-measure-6nhp8e | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/to-identify-describe-and-represent-fractions-ccw3ee | Learn the strategy: Complete the online lesson: Fractions less than 1: https://classroom.thenational.academy/lessons/compare-fractions-less-than-one-c4ukcc Then, fractions greater than 1: https://classroom.thenational.academy/lessons/compare-fractions-greater-than-one-c8vkqr | Learn the strategy: Complete the online lessons: https://classroom.thenational.academy/lessons/add-fractions-cnkh3ar Then: https://classroom.thenational.academy/lessons/subtract-fractions-6hh66r |
| 2 Revisiting prior learning to consolidate and embed | | | | | |
| Revisit fraction word problems | Revisit multiplying fractions | Revisit fractions of amounts | Revisit percentages of amounts | Revisit problem solving, including converting measures | Revisit order of operations |
| Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/fractions-problem-solving-c9k38d | Learn the strategy: Complete the online lessons: https://classroom.thenational.academy/lessons/multiply-a-fraction-by-a-whole-number-cgup2t Then: https://classroom.thenational.academy/lessons/multiply-a-mixed-number-fraction-6nj6t Or: https://classroom.thenational.academy/lessons/fractions-represent-multiplication-with-proper-fractions-c9h64e | Learn the strategy: Complete the online lessons: https://classroom.thenational.academy/lessons/fractions-of-quantities-1-6wuk6r Then: https://classroom.thenational.academy/lessons/fractions-of-quantities-part-2-cmf36t | Learn the strategy: Complete the online lessons: https://classroom.thenational.academy/lessons/finding-percent-of-a-quantity-6xh36d Then: https://classroom.thenational.academy/lessons/solve-problems-involving-the-calculation-of-percentages-of-amounts-c5gkge | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/solving-problems-involving-various-units-of-measure-68v3ae | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/consolidating-order-of-operations-68t34d |
| 3 Revisiting prior learning to consolidate and embed | | | | | |
| Revisit 'common factor' and 'common multiple' as properties of a number Exploring factors and multiples of numbers, including identifying common factors and multiples. | Revisit decimals and measures: Convert between standard measures Converting between grams and kilograms and problems involving mass. | Revisit decimals and measures: Standard Units In today's lesson, we will learn to select and estimate the correct unit of measure and read scales measuring length, mass and volume. | Revisit decimal equivalents of fractions Converting a fraction to a decimal using different strategies. | Revisit interpreting graphs: Interpret Line Graphs In today's lesson, we will explore discrete and cumulative data and interpret different types of line graphs. | Revisit co-ordinates: Solving practical coordinate problems Solving problems involving coordinates. |
| Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/understand-the-terms-common-factor-and-common-multiple-as-properties-of-a-number-cdk68c | Learn the strategy: Complete the online lessons: https://classroom.thenational.academy/lessons/decimals-and-measures-convert-between-standard-measures-6cupac | Learn the strategy: Complete the online lessons: https://classroom.thenational.academy/lessons/decimals-and-measures-standard-units-cdj60r | Learn the strategy: Complete the online lessons: https://classroom.thenational.academy/lessons/decimal-equivalents-of-fractions-cnkh32r | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/interpret-line-graphs-chk38d | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/solving-practical-coordinate-problems-part-1-c9h3ec |

| | | | | | |
|---|---|---|--|---|---|
| 4 Revisiting prior learning to consolidate and embed | | | | | |
| Revisit geometry: Find the value of missing angles Deepening understanding of angles by applying your understanding to find and calculate missing angles within diagrams and 2-D shapes. | Revisit geometry: Find the value of missing angles in quadrilaterals Representing the angles in a quadrilateral pictorially and algebraically before learning how to calculate missing angles. | Revisit geometry: Find unknown angles in triangles Representing the angles in a triangle pictorially and algebraically before learning how to calculate missing angles. | Revisit decimals and measures: Convert standard lengths In today's lesson, we will convert between standard units of length - millimetres, centimetres, metres and kilometres. | Revisit problem solving: Reasoning and problem solving In this lesson we will explore two types of problem in depth, thinking carefully about how to represent each problem in order to help us find a solution. | Revisit estimating and rounding contexts Developing number sense and applying the skills of rounding and estimating linked to everyday situations. |
| Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/find-the-value-of-missing-angles-6cr3je | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/find-the-value-of-missing-angles-in-quadrilaterals-cdgk0r | Learn the strategy: Complete the online lessons: https://classroom.thenational.academy/lessons/find-unknown-angles-in-triangles-6tgkcd | Learn the strategy: Complete the online lessons: https://classroom.thenational.academy/lessons/decimals-and-measures-convert-standard-lengths-60tkad | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/reasoning-and-problem-solving-6mwkct | Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/estimating-and-rounding-contexts-6gw34d |
| 5 Revisiting prior learning to consolidate and embed | | | | | |
| Revisit fractions: Multiply and divide with improper fractions In today's lesson, we will learn strategies for multiplying and dividing with mixed numbers and improper fractions. | Revisit fractions: Solve fraction problems with the four operations In today's lesson, we will revise calculating with fractions using the four operations and then apply this to word problems. | Revisit ratio: Use ratio to express relationships In today's lesson, we will use ratio to express relationships. | Revisit scaling: Solve problems involving scale factor in shapes In today's lesson, we will solve problems involving scale factor. | Revisit scaling: Solve problems involving the relative size of two quantities (Part 1) In this lesson, we will solve problems involving the relative size of two quantities. | Revisit scaling: Solve problems involving the relative size of two quantities (Part 2) In this lesson, we will solve problems involving the relative size of two quantities, where multi-step scaling is necessary. |
| 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/fractions-solve-fraction-problems-with-the-four-operations-cgrk0d | Complete the online lesson: https://classroom.thenational.academy/lessons/use-ratio-to-express-relationships-70tpad | Complete the online lesson: https://classroom.thenational.academy/lessons/solve-problems-involving-scale-factor-in-shapes-c4u3ar | Complete the online lesson: https://classroom.thenational.academy/lessons/solve-problems-involving-the-relative-size-of-two-quantities-part-1-68r6ac | Complete the online lesson: https://classroom.thenational.academy/lessons/solve-problems-involving-the-relative-size-of-two-quantities-part-2-61k68d |
| 6 Revisiting prior learning to consolidate and embed | | | | | |
| Revisit algebra: Expressing missing numbers algebraically In this lesson we will be finding the unknown values in algebraic expressions. | Revisit algebra: Expressing missing number problems algebraically In this lesson we will be exploring various problems and representing them using algebra | Revisit algebra: Finding solutions to problems with two variables In this lesson we will be discussing how to work systematically to find all possibilities for problems with two variables. | Revisit negative numbers through co-ordinates: Solving practical coordinate problems (Part 2) In today's lesson, we will use the general rules that we learnt in lesson four of this unit to solve more complex problems involving coordinates. | Revisit measures problems: Decimals and measures: Solving problems with length In today's lesson, we will solve problems involving calculating the area and perimeter of rectilinear shapes, including compound rectilinear shapes, where the conversion of measure is needed. | Revisit measures problems: Decimals and measures: calculation and conversion of units of area In today's lesson, we will be investigating the relationship between square millimetres, centimetres and metres, then apply this understanding to calculating area. |
| Complete the online lesson: https://classroom.thenational.academy/lessons/expressing-missing-numbers-algebraically-cwppcc | Complete the online lesson: https://classroom.thenational.academy/lessons/expressing-missing-number-problems-algebraically-c8v64r | Complete the online lesson: https://classroom.thenational.academy/lessons/finding-solutions-to-problems-with-two-variables-cmt30r | Complete the online lesson: https://classroom.thenational.academy/lessons/solving-practical-coordinate-problems-part-2-6hh34e | Complete the online lesson: https://classroom.thenational.academy/lessons/decimals-and-measures-solving-problems-with-length-cdk32e | Complete the online lesson: https://classroom.thenational.academy/lessons/decimals-and-measures-calculation-and-conversion-of-units-of-area-c4ukar |

| 7 Revisiting prior learning to consolidate and embed | | | | | |
|---|---|---|---|---|---|
| <p>Revisit fractions: Fractions problem solving In today's lesson, we will be learning how to solve fraction problems relating to shape, including calculating the perimeter and finding missing lengths.</p> | <p>Revisit shape: Find unknown angles in triangles In today's lesson, we will represent the angles in a triangle pictorially and algebraically before learning how to calculate missing angles.</p> | <p>Revisit graphs and data: Interpret Pie Charts In today's lesson, we will learn to interpret pie charts.</p> | <p>Revisit mental strategies: Thinking flexibly In today's lesson, we will learn to think flexibly, looking for the most efficient strategies we can find for subtraction.</p> | <p>Revisit mental strategies: Solve calculations mentally by relating them to known facts In today's lesson will be solving calculations mentally by relating them to known facts.</p> | <p>Revisit number: Balancing equations to find unknown values In today's lesson, we will learn to balance equations to find unknown values. We will learn how the image of a see-saw helps us think about equivalent calculations, if they are level, they are equal (equivalent) to each other.</p> |
| <p>Complete the online lesson: https://classroom.thenational.academy/lessons/fractions-problem-solving-c9k38d</p> | <p>Complete the online lesson: https://classroom.thenational.academy/lessons/find-unknown-angles-in-triangles-6tgkcd</p> | <p>Complete the online lesson: https://classroom.thenational.academy/lessons/interpret-pie-charts-ccr6ad</p> | <p>Complete the online lesson: https://classroom.thenational.academy/lessons/thinking-flexibly-74t3jr</p> | <p>Complete the online lesson: https://classroom.thenational.academy/lessons/solve-calculations-mentally-by-relating-them-to-known-facts-crt64d</p> | <p>Complete the online lesson: https://classroom.thenational.academy/lessons/balancing-equations-to-find-unknown-values-6nk3ge</p> |