

Year 6 spring home learning overview

1 Spring term 1 Year 4 Decimals Recap					
Bank Holiday	INSET day	ADDITIONAL LESSON: <u>Recap year 4 fractions: Bk 4B, Ch. 8. Lesson 8: Writing Decimals</u> To write decimal numbers.	ADDITIONAL LESSON: <u>Recap year 4 fractions: Bk 4B, Ch. 8. Lesson 11: Comparing and Ordering Decimals</u> To compare & order decimals	ADDITIONAL LESSON: <u>Recap year 4 fractions: Bk 4B, Ch. 8. Lesson 14: Rounding decimals</u> To round decimal numbers.	ADDITIONAL LESSON: <u>Recap year 4 fractions: Bk 4B, Ch. 8. Lesson 16 AND 17: Dividing Whole Numbers by 100</u> To divide by 100&10.
		Learn the strategy: https://classroom.thenational.academy/lessons/reognising-decimal-hundredths-part-1-c4v3ed?step=2&activity=video https://classroom.thenational.academy/lessons/reognising-decimal-hundredths-part-2-cmukcd?step=2&activity=video	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-2-64i38f?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/multiplying-and-dividing-by-100-part-1-68vk6c?step=2&activity=video https://classroom.thenational.academy/lessons/multiplying-and-dividing-by-100-part-2-6ngkcc?step=2&activity=video
2 Year 5 Decimals Recap					Year 6 Decimals Chapter 4
ADDITIONAL LESSON: <u>Recap Yr 5, Bk 5B, Chapter 7: Lesson 3: Reading and Writing Decimals</u> To read and write decimals.	ADDITIONAL LESSON: <u>Recap Yr 5, Bk 5B, Chapter 7: Lesson 7: Writing Fractions as Decimals</u> To write fractions as decimals.	ADDITIONAL LESSON: Yr 5, Bk 5B, Chapter 7: Lesson 10: Add & Subtract Decimals To add and subtract amounts in pounds & pence.	ADDITIONAL LESSON: Yr 5, Bk 5B, Chapter 7: Lesson 14: Adding and Subtracting Decimals To add and subtract the perimeter using decimals.	ADDITIONAL LESSON: Yr 5, Bk 5B, Chapter 7: Lesson 15: Rounding Decimals To round decimals to the nearest whole. & numbers to nearest tenth.	Lesson 1: Writing and Reading Decimals To read and write decimals to thousandths; to use concrete materials to represent decimals.
Learn the strategy: https://classroom.thenational.academy/lessons/thousandths-6wup6f?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/tenths-and-hundredths-6nj68c?step=2&activity=video https://classroom.thenational.academy/lessons/comparing-fractions-and-decimals-c5jp8r?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/solving-problems-with-decimals-using-addition-and-subtraction-6qu6ad Recap column addition and subtraction: https://classroom.thenational.academy/lessons/applying-and-consolidating-column-method-for-addition-and-subtraction-cavpcc?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/deriving-decimal-addition-and-subtraction-facts-6qu30c?step=2&activity=video	Learn the strategy: Part 1: https://classroom.thenational.academy/lessons/rounding-decimals-part-1-70r6at?step=2&activity=video Part 2: https://classroom.thenational.academy/lessons/rounding-decimals-part-2-74rkqc?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
3 Chapter 4: Decimals					
Lesson 2: Dividing Whole Numbers To divide numbers by larger whole numbers; to use Dienes to represent 1/10s, 1/100s & 1/1000s.	Lesson 3: Dividing Whole Numbers To divide numbers making decimals; calculate decimal fraction equivalents long division. METHOD 2	Lesson 5: Writing Fractions as Decimals To write fractions as decimals; to use long division as the key strategy	Lesson 6 AND 7: Multiplying Decimals To multiply decimals by whole numbers using partitioning or the worded method.	Lesson 8: Multiplying Decimals To multiply decimals by whole numbers (Use L9 as deepening)	Lesson 10: Dividing Decimals To divide decimals using number bonds and number discs as the key strategies. (Method 2)
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: https://classroom.thenational.academy/lessons/decimal-equivalents-of-fractions-cn32r?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: https://classroom.thenational.academy/lessons/use-formal-written-methods-for-short-multiplication-including-multiplying-decimals-6rnp2r?step=2&activity=video https://classroom.thenational.academy/lessons/multiplying-decimals-by-a-whole-number-6xikcr?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/multiplying-decimals-by-a-whole-number-6xikcr?step=2&activity=video https://classroom.thenational.academy/lessons/division-of-a-decimal-number-by-an-integer-c8f30e?step=2&activity=video	

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4 Chapter 4: Decimals					
Lesson 11: Dividing Decimals To divide decimals using bar models, number bonds and long division as key strategies,	Lesson 12: Multiplying a Decimal by a 2-Digit Whole Number To multiply decimals by a 2-digit whole number	Lesson 13: Dividing a Decimal by a 2-Digit Whole Number To divide decimals by 2-digit numbers	Lesson 14: Dividing a Decimal by a 2-Digit Whole Number To divide decimals by 2-digit whole numbers	Lesson 1: Converting Units of Length To convert common measurements to metres, centimetres and millimetres.	Lesson 2: Converting Units of Length To convert units of measure into different units using decimals and fractions
Learn the strategy: (as previous) https://classroom.thenational.academy/lessons/multiplying-decimals-by-a-whole-number-6xjkr?step=2&activity=video https://classroom.thenational.academy/lessons/division-of-a-decimal-number-by-an-integer-c8t30e?step=2&activity=video	Learn the strategy: (from 19 minutes) https://classroom.thenational.academy/lessons/multiply-by-a-two-digit-number-using-long-multiplication-75k3cc?step=2&activity=video	Learn the strategy: Use the long division strategy: https://classroom.thenational.academy/lessons/use-the-formal-written-method-of-long-division-to-solve-appropriate-calculations-c8wk0c?step=2&activity=video https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-dividing-decimals/v/dividing-a-decimal-by-a-whole-number	Learn the strategy: Use the long division strategy: https://classroom.thenational.academy/lessons/use-the-formal-written-method-of-long-division-to-solve-appropriate-calculations-c8wk0c?step=2&activity=video https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-dividing-decimals/v/dividing-a-decimal-by-a-whole-number	Learn the strategy: (up to 23 minutes and 18 seconds) https://classroom.thenational.academy/lessons/decimals-and-measures-convert-standard-lengths-60tkad?step=2&activity=video	
5				Chapter 7: Percentage	
Lesson 3: Converting Units of Length To convert metres into kilometres as units of measure.	Lesson 4: Converting Units of Mass To convert units of mass from grams to kilograms using decimals and fractions.	Lesson 5: Converting Units of Volume To convert units of volume from millilitres to litres.	ADDITIONAL LESSON: Decimals and measures: Convert between units of time To convert between units of time, equivalent times and solve problems involving time.	ADDITIONAL LESSON: Recap Yr 5 percentages: Bk 5B, Ch 8, Lesson 2: Finding Percentages To convert values of an amount into %. To convert fractions into percentages.	ADDITIONAL LESSON: Recap year 5 percentages: Bk 5B, Chapter 8, Lesson 3: Finding Percentages
Learn the strategy:(from 23 minutes and 19 seconds) https://classroom.thenational.academy/lessons/decimals-and-measures-convert-between-standard-lengths-60tkad?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/decimals-and-measures-convert-between-standard-measures-6cupac?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/convert-measures-convert-between-units-cdj62t?step=2&activity=video	Complete the online lesson: https://classroom.thenational.academy/lessons/decimals-and-measures-convert-between-units-of-time-c4r66c	Learn the strategy: https://classroom.thenational.academy/lessons/understanding-percentage-6qvpad?step=2&activity=video	
6 Chapter 7: Percentage				Catch up time	
Lesson 1: Finding the Percentage of a Number To find the % of a whole number using division & multiplication; to use bar models as pictorial approach to calculating %.	Lesson 2: Finding the Percentage of a Quantity To find % of a quantity; to use bar models to support division & multiplication of numbers towards the percentage.	Lesson 3: Finding Percentage Change To find % change in an amount over time; to calculate % change where the number gives rise to a decimal.	ADDITIONAL LESSON: Solve problems involving the use of percentages for comparison To solve problems involving the use of percentages for comparison.	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: https://classroom.thenational.academy/lessons/finding-percent-of-a-quantity-6xh36d?step=2&activity=video	Learn the strategy:(up to 5 minutes and 34 seconds) https://classroom.thenational.academy/lessons/percentages-of-amount-part-2-c9j66c?step=2&activity=video Method 3: (up to 4 minutes and 49 seconds) https://classroom.thenational.academy/lessons/percentages-of-amount-6nj68r?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/solve-problems-involving-the-calculation-of-percentages-of-amounts-c5gkge (up to 2 minutes and 8 seconds) https://classroom.thenational.academy/lessons/increase-by-a-percentage-69h68c?step=2&activity=video	Complete the online lesson https://classroom.thenational.academy/lessons/solve-problems-involving-the-use-of-percentages-for-comparison-6mtk6t		
Half term break					

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7 Spring 2 Chapter 8: Ratio					
ADDITIONAL LESSON: Fractions, decimals and equivalence problems	Lesson 2: Comparing Quantities To find ratio of a quantity; to simplify ratios using division; compare more than two quantities using the term 'ratio'; to use bar models.	Lesson 3: Comparing Quantities To find ratio of a quantity; to simplify ratios using division; compare more than two quantities using the term 'ratio'; to use bar models.	Lesson 4: Comparing Quantities To compare quantity using both fractions and ratios; to use bar model diagrams to represent ratios.	Lesson 6: Comparing Numbers To compare numbers using ratios; to make decisions about simplifying ratios using division	ADDITIONAL LESSON: Ratio problems In this lesson, we will be solving problems using knowledge of ratio.
Learn the strategy: Complete the online lesson https://classroom.thenational.academy/lessons/recall-and-use-equivalences-between-fractions-decimals-and-percentages-6dh6cc	Learn the strategy: https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-ratios-intro/v/ratios-intro	Learn the strategy: https://classroom.thenational.academy/lessons/use-ratio-to-express-relationships-70tpad?step=2&activity=video		Learn the strategy: https://classroom.thenational.academy/lessons/solve-problems-involving-the-relative-size-of-two-quantities-part-1-68r6ac?step=2&activity=video	Complete the online lesson https://classroom.thenational.academy/lessons/ratio-problems-c5hk4r
8 Chapter 9: Algebra				Consolidation	
Lesson 2: Describing a Pattern To generate and describe number patterns. (Could also do worksheets 3)	Lesson 5: Writing Algebraic Expressions To express algebraically a missing number. (Could also do worksheets L4)	Lesson 10: Solving Equations To solve equations; to use equations to find unknown values.	ADDITIONAL LESSON: Finding solutions to problems with two variables To work systematically to find all possibilities for problems with two variables.	ADDITIONAL LESSON: Consolidating order of operations To apply our understanding of order of operations to problems.	Revisit as needed: Multiplication and division (including multi-step word problems and measures)
Learn the strategy: https://classroom.thenational.academy/lessons/consolidating-linear-sequences-and-representing-problems-with-algebra-71j3gr?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/reasoning-and-problem-solving-6mwkct?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/expressing-missing-numbers-algebraically-ccwpc?step=2&activity=video	Complete the online lesson: https://classroom.thenational.academy/lessons/finding-solutions-to-problems-with-two-variables-cm130r	Complete the online lesson: https://classroom.thenational.academy/lessons/consolidating-order-of-operations-68f34d	Complete the online lesson https://classroom.thenational.academy/lessons/solve-problems-involving-division-with-remainders-part-1-6hjp6t
9 Chapter 10: Area & perimeter					
ADDITIONAL LESSON: Recap year 5 area and perimeter: Bk 5B, Chapter 12, Lesson 1: Finding the Perimeter To find the perimeter of shapes.	ADDITIONAL LESSON: Recap year 5 area and perimeter: Bk 5B, Chapter 12, Lesson 6: Measuring the Area To measure the area of squares.	Lesson 1: Finding the Area and the Perimeter of Rectangles To find area & perimeter of rectangles; calculate perimeter using known area and vice versa.	ADDITIONAL LESSON: Recap year 5 area and perimeter: Bk 5B, Chapter 12, Lesson 7: Measuring the Area To measure the area of a shape. (Measuring area of compound shapes)	Lesson 2: Finding the Area of Parallelograms To find and calculate area of a parallelogram; to use prior understanding of area & materials to construct a formula for the area.	Lesson 3: Finding the Area of Triangles To use prior knowledge of area to solve the area of a triangle; to use formula for the area of a rectangle to solve problems involving triangles.
Learn the strategy: https://classroom.thenational.academy/lessons/calculate-the-perimeter-of-simple-compound-shapes-c9gp8r?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/calculate-and-compare-the-area-of-rectangles-using-square-centimetres-cm-69h6cd?step=1&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/investigate-the-relationship-between-area-and-perimeter-and-use-this-knowledge-to-solve-problems-ccl3cc?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/rectilinear-shapes-6wr34r?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/area-of-parallelograms-6wup2e?step=2&activity=video	Learn the strategy: (up to 6 minutes and 45 seconds) https://classroom.thenational.academy/lessons/area-of-triangles-6cwk4r?step=2&activity=video

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10 Ch10: Area & perimeter		Chapter 11: Volume			Geometry Recap Year 5
Lesson 4: Finding the Area of Triangles To calculate the area of a triangle using a formula; to calculate the area of a triangle in multiple ways.	ADDITIONAL LESSON: Recap Year 5 volume: Bk 5B, Chapter 13, Lesson 3: Finding the Volume of Solids To find the volume of solids.	Lesson 1 and 2: Finding the Volume of Cubes and Cuboids To find the volume of cubes and cuboids using materials. To determine formula for volume of cubes & cuboids & apply it to calculate volume.	Lesson 4: Finding the Volume of Cubes and Cuboids To calculate the volume of boxes using the formula for volume of a cube; to expose common misconceptions in volume.	ADDITIONAL LESSON: Recap Year 5 volume: Bk 5B, Chapter 13, Lesson 6: Converting Units of Volume To compare and convert units of volume.	ADDITIONAL LESSON: Recap Year 5 geometry: Bk 5B, Chapter 9: Lesson 1: Knowing Types of Angles To know angle name & qualities: acute, right, obtuse, reflex.
Learn the strategy: (up to 3 minutes) https://classroom.thenational.academy/lessons/further-triangles-68u6ae?step=2&activity=video	Learn the strategy: https://vimeo.com/427271112/69062a1937 And: https://vimeo.com/427276443/4b13f4c7bb	Learn the strategy: https://classroom.thenational.academy/lessons/to-describe-volume-in-cubic-units-6hhkj?step=2&activity=video And: https://classroom.thenational.academy/lessons/to-describe-volume-in-cubic-units-6hhkj?step=2&activity=video	Learn the strategy: (up to 4 minutes and 8 seconds) https://classroom.thenational.academy/lessons/problem-solving-with-decimals-in-context-60u3gd?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/compare-and-order-acute-obtuse-and-reflex-angles-6dhk6d?step=2&activity=video	
11 Chapter 12: Geometry					
ADDITIONAL LESSON: Recap Year 5 geometry: Bk 5B, Chapter 9: Lesson 2: Measuring Angles To measure angles using a protractor.	Lesson 1: Investigating Vertically Opposite Angles To investigate opposite angles; to use prior knowledge of angles to solve problems.	Lesson 3: Investigating Angles in Triangles To determine and show the sum of the angles inside a triangle.	Lesson 4: Investigating Angles in Quadrilaterals To investigate and determine angles in quadrilaterals.	ADDITIONAL LESSON: Recap Year 5 geometry: Bk 5B, Ch 9: Lesson 5: Investigating Angles at a Point To investigate angles that add up to 360°.	Lesson 6: Naming Parts of a Circle To name the parts of a circle; to calculate diameter and radius using parts of a circle.
Learn the strategy: https://classroom.thenational.academy/lessons/reading-angles-on-a-protractor-part-1-6mt3gf?step=2&activity=video Then: https://classroom.thenational.academy/lessons/reading-angles-on-a-protractor-part-2-6mt30d?step=2&activity=video	Learn the strategy: https://vimeo.com/412752887/402efb9f17	Learn the strategy: https://vimeo.com/412302557/9fc6a6e402 And: https://classroom.thenational.academy/lessons/find-unknown-angles-in-triangles-6tqkcd?step=2&activity=video	Learn the strategy: https://vimeo.com/412302740/51f3e58179 And: https://classroom.thenational.academy/lessons/find-the-value-of-missing-angles-in-quadrilaterals-cdjk0r?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/calculating-angles-on-a-line-or-around-a-point-69h66t?step=2&activity=video Or: https://classroom.thenational.academy/lessons/find-the-value-of-missing-angles-6cr3je?step=1&activity=video	Learn the strategy: https://vimeo.com/412316220/595434faac And: https://classroom.thenational.academy/lessons/coordinates-and-shapes-to-illustrate-and-name-parts-of-a-circle-69hkec?step=2&activity=video
12 Chapter 12: Geometry			Catch up time		
Lesson 7: Solving Problems Involving Angles in a Circle To solve problems involving angles in a circle.	Lesson 8: Drawing Quadrilaterals To draw quadrilaterals with specific lengths & parallel lines; to find perimeter of shapes, name trapeziums & parallelograms	Combined lesson: Lesson 9 and 10: Drawing Triangles To draw triangles using measurements and angles as starting point; protractor to draw angles.	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: https://classroom.thenational.academy/lessons/coordinates-and-shapes-to-solve-practical-problems-involving-circles-68u36d?step=2&activity=video	Learn the strategy: (from 8 minutes and 23 seconds to 13 minutes and 3 seconds) https://classroom.thenational.academy/lessons/quadrilateral-problems-68t6cc?step=2&activity=video And: (up to 15 minutes and 40 seconds) https://classroom.thenational.academy/lessons/to-compare-and-classify-quadrilaterals-6rv62t?step=2&activity=video	Recap drawing angles using a protractor: https://classroom.thenational.academy/lessons/draw-angles-with-a-protractor-1-60rp4e?step=2&activity=video Learn the strategy: https://classroom.thenational.academy/lessons/solve-problems-involving-scale-factor-in-shapes-c4u3ar?step=2&activity=video			
Easter Break					