Year 4 summer home learning overview 2021-22

Quality First Education Trust

1 Summer term 1 2021-22   Chapter 8: Decimals

		Lesson 9: Comparing and Ordering Decimals To compare and order decimal numbers.	Lesson 10: Comparing and Ordering Decimals To compare and order decimal numbers.	Lesson 11: Comparing and Ordering Decimals To compare and order decimal numbers.	Lesson 13: Rounding Decimals To round decimal numbers.
Bank Holiday	**INSET day**	**Learn the strategy:** https://classroom.thenational.academy/lessons/ordering-decimals-6gt66r?step=2&activity=video	**Learn the strategy:** https://www.khanacademy.org/math/get-ready-for-5th-grade/x01d8909412c13b9d:get-ready-for-decimal-place-value/x01d8909412c13b9d:compare-decimals-and-fractions/v/comparing-decimals-visually-example	**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-1-crvk6c?step=2&activity=video

2   Chapter 8: Decimals

Lesson 14: Rounding Decimals To round decimal numbers.	Lesson 15: Writing Fractions as Decimals To write fractions as decimal numbers. (focus 0.25, 0.5, 0.75)	Lesson 16: Dividing Whole Numbers by 10 To divide whole numbers by 10.	Lesson 17: Dividing Whole Numbers by 100 To divide whole numbers by 100.	REVIEW: Chapter 8: Decimals	ADDITIONAL COMBINED LESSON: Recap year 3: Chapter 8: Money: Lesson 1: Naming Amounts of Money To add money. Lesson 2: Naming Amounts of Money To more than 100p; to regroup & rename 100p as £1.
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/recognising-common-decimal-equivalents-6dgk6c?step=2&activity=video	**Learn the strategy:** https://vimeo.com/412644912/dcfe2a7174 **Or:** https://classroom.thenational.academy/lessons/multiplying-and-dividing-by-10-part-1-74rk6t?step=2&activity=video **And:** https://classroom.thenational.academy/lessons/multiplying-and-dividing-by-10-part-2-70v30r?step=2&activity=video	**Learn the strategy:** https://vimeo.com/412654995/ddb213f47d **And:** https://vimeo.com/414700794/6adca95229 **Or:** https://classroom.thenational.academy/lessons/multiplying-and-dividing-by-100-part-1-68vk6c?step=2&activity=video **And:**https://classroom.thenational.academy/lessons/multiplying-and-dividing-by-100-part-2-6ngkcc?step=2&activity=video	Refer to any of the lesson videos from the chapter as a reminder of the strategies used. **Or Complete the online lesson: Recap ordering decimals** https://classroom.thenational.academy/lessons/ordering-decimals-6gt66r	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-recognise-the-value-of-different-coins-and-notes-65j64e?step=2&activity=video **AND:** **Learn the strategy:** https://classroom.thenational.academy/lessons/counting-money-in-a-set-of-coins-65h32d?step=2&activity=video

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	Lesson 1: Writing Amounts of Money To record amounts of money.	Lesson 2: Writing Amounts of Money To record amounts of money.	Lesson 3: Comparing Amounts of Money To compare total amounts of money.	Lesson 4: Rounding Amounts of Money To round to the nearest pound (whole number).	Lesson 5: Solving Problems Involving Money To solve money problems (addition and subtraction).
May Day bank holiday	**Learn the strategy:** https://vimeo.com/414685288/22ff27cf83		**Learn the strategy:** https://classroom.thenational.academy/lessons/comparing-decimals-61j38d?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/rounding-decimals-part-1-70r6at?step=2&activity=video **And:**https://classroom.thenational.academy/lessons/rounding-decimals-part-2-74rkgc?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/adding-decimals-70t62r?step=2&activity=video https://classroom.thenational.academy/lessons/subtracting-decimals-69jpat?step=2&activity=video

4	**Chapter 9: Money**					
Lesson 6: Solving Problems Involving Money To solve money problems (multiplication).	**ADDITIONAL COMBINED LESSON: Recap year 3: Chapter 6: Mass: Lesson 4: Reading Weighing Scales** To weigh heavier items where the markers on the scales represent 200 g each.	**Lesson 1: Measuring Mass** To measure mass.	**Lesson 2: Measuring Mass** To measure mass.	**Lesson 3: Converting Units of Mass** To convert units of mass.	**ADDITIONAL COMBINED LESSON: Recap year 3: Chapter 7: Volume: Lesson 6: Writing Capacity in Litres and Millilitres** To measure larger capacity in litres and millilitres.
Learn the strategy: https://vimeo.com/user12106273/review/417089140/29e6f4beec	Learn the strategy: (8 minutes and 48 seconds) https://classroom.thenational.academy/lessons/reading-weighing-scales-with-different-intervals-c4rk6c?step=1&activity=video	Learn the strategy: https://vimeo.com/user12106273/review/419847933/07c3a7181d		Learn the strategy: First a reminder: https://classroom.thenational.academy/lessons/converting-measurements-cdj62t?step=2&activity=video Then: https://classroom.thenational.academy/lessons/converting-between-units-of-metric-mass-6ww38d?step=2&activity=video	Learn the strategy: (from 5 minutes and 9 seconds) https://classroom.thenational.academy/lessons/consolidating-and-reviewing-learning-on-capacity-and-volume-cdhp2r?step=2&activity=video

5	**Chapter 10: Mass, Volume and Length**					
Lesson 4: Measuring Volume To measure volume.	**Lesson 5: Measuring Volume** To measure volume	**Lesson 6: Converting Units of Volume** To convert units of volume.	**Lesson 8: Measuring Length** To measure length.	**Lesson 9: Converting Units of Length** To convert units of length.	**Lesson 10: Converting Units of Length** To convert units of length.
Learn the strategy: Reminder: https://classroom.thenational.academy/lessons/converting-measurements-cdj62t?step=2&activity=video Then: https://classroom.thenational.academy/lessons/volume-to-read-scales-when-measuring-volume-6ru68d?step=1&activity=video		Learn the strategy: https://vimeo.com/425518080/f03d0149f3	Learn the strategy: https://classroom.thenational.academy/lessons/converting-lengths-part-1-cgr3jd?step=2&activity=video	Learn the strategy: https://vimeo.com/425121590/7337f300ca And: https://classroom.thenational.academy/lessons/converting-lengths-part-2-64ukar?step=2&activity=video	Learn the strategy: https://vimeo.com/425121615/42e218ede4

6	**Chapter 10: Mass, Volume and Length**		**Chapter 11: Area of Figures**			
Recap year 3. Chapter 14: Perimeter Lessons 1 & 2	**Lesson 11: Measuring Perimeter in Different Units** To measure perimeter in centimetres and millimetres.	**Lesson 1: Measuring the Surface that an Object Covers** To find area (by measuring surface coverage).	**Lesson 2: Measuring Area** To measure area.	**Lesson 3: Measuring Area** To measure area (counting squares).	**Catch up time**
Learn the strategy: https://vimeo.com/428408495/940b91162d And: https://vimeo.com/428424124/06af5902fa	Learn the strategy: https://vimeo.com/user12106273/review/425839735/ecf1cbf985 Or: https://classroom.thenational.academy/lessons/calculating-the-perimeters-of-shapes-in-m-and-cm-6ngkjt?step=2&activity=video	Learn the strategy: https://vimeo.com/user12106273/review/425844398/1408660396		Learn the strategy: https://vimeo.com/user12106273/review/425859169/c53c1cc90e And: https://classroom.thenational.academy/lessons/understand-that-area-is-a-measure-of-surface-and-is-measured-in-square-units-part-1-ccwk2c?step=1&activity=video	

Half term

Year 4 summer home learning overview 2021-22

7 Summer term 2 2021-22

Ch 11: Area of Figures			Chapter 12: Geometry		
Lesson 4: Measuring Area To measure area (counting squares and half squares).	**Revisit formal multiplication: Multiplying 3-digit numbers by 1-digit numbers** To use short multiplication to multiply 3-digit numbers by 1-digit numbers.	**Revisit problem solving with the four operations**	**Lesson 1: Knowing Types of Angles** To identify types of angles. *(Recap year 3 right angles)*	**Lesson 2: Comparing Angles** To compare angles.	**Lesson 3: Classifying Triangles** To classify triangles.
Learn the strategy: https://vimeo.com/user12106273/review/426145743/0880a925fc	**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/problem-solving-using-all-four-operations-69k32d	**Learn the strategy: Right-angles:** https://classroom.thenational.academy/lessons/shape-and-symmetry-to-identify-right-angles-75jkad?step=2&activity=video **Acute and obtuse angles:** https://classroom.thenational.academy/lessons/shape-and-symmetry-to-identify-acute-and-obtuse-angles-crtk0r?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/shape-and-symmetry-to-compare-and-order-angles-c4wpcr?step=1&activity=video	**Learn the strategy: Right-angled and equilateral triangles:** https://classroom.thenational.academy/lessons/to-identify-and-classify-right-angled-and-equilateral-triangles-6mtk4e?step=2&activity=video **Isosceles and scalene triangles:** https://classroom.thenational.academy/lessons/to-compare-and-classify-isosceles-and-scalene-triangles-chj62c

8 Chapter 12: Geometry

Lesson 4: Classifying Quadrilaterals To classify quadrilaterals.	**Lesson 5: Identifying Symmetrical Figures** To identify symmetrical figures.	**Revisit converting measures: Ordering Measurements** In this lesson, you will order units of measurement using your converting units skills**.**	**Revisit fractions: Equivalent fractions** To explore the relationship between the numerator and denominator in pairs of equivalent fractions.	**Revisit fractions: Calculating unit fractions of quantities** To solve worded problems involving finding unit fractions of quantities.	**Revisit fractions: Calculating non-unit fractions of quantities** To solve worded problems involving finding non-unit fractions of quantities.
Learn the strategy: https://vimeo.com/426153029/176f347a59 **And:** https://classroom.thenational.academy/lessons/to-compare-and-classify-quadrilaterals-6rv62t?step=2&activity=video	**Learn the strategy:** https://vimeo.com/428960528/b123566518	**Complete the online lesson:** https://classroom.thenational.academy/lessons/ordering-measurements-crt3cr	**Complete the online lesson:** https://classroom.thenational.academy/lessons/equivalent-fractions-68rk2d	**Complete the online lesson:** https://classroom.thenational.academy/lessons/calculating-unit-fractions-of-quanties-6wvkgd	**Complete the online lesson:** https://classroom.thenational.academy/lessons/calculating-non-unit-fractions-of-quantities-cmtp4e

9   Consolidation

				Chapter 12: Geometry	
Revisit addition and subtraction of fractions: Adding fractions (with a total greater than one) To explore fractions that total one & greater than one using fraction bars to support.	**Revisit addition and subtraction of fractions: Subtracting fractions** To explore subtracting fractions fractions greater than one using fraction bars & number lines to build understanding.	**Revisit graphs: Read, interpret and compare bar charts** In this lesson, you will be reading, interpreting and comparing bar charts	**Revisit graphs: Interpret time graphs** In this lesson, you will be reading and interpreting time graphs	**Lesson 6: Drawing Lines of Symmetry** To draw lines of symmetry.	**Lesson 7: Completing Symmetrical Figures** To draw symmetrical figures.
Complete the online lesson: https://classroom.thenational.academy/lessons/adding-fractions-with-a-total-greater-than-one-cgw66c	**Complete the online lesson:** https://classroom.thenational.academy/lessons/subtracting-fractions-2-71k34d	**Complete the online lesson:** https://classroom.thenational.academy/lessons/read-interpret-and-compare-bar-charts-cth3gd	**Complete the online lesson:** https://classroom.thenational.academy/lessons/interpret-time-graphs-cngkje	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-identify-lines-of-symmetry-in-a-pattern-cgrkcc?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-complete-a-simple-symmetrical-figure-74wpat?step=2&activity=video

10 Chapter 12: Geometry		Chapter 13: Position and Movement			Ch 14: Roman Numerals
Lesson 10: Sorting Shapes To sort shapes.	**Lesson 1: Describing Position** To describe position.	**Lesson 2: Describing Position** To describe position.	**Lesson 3: Plotting Points** To plot coordinates.	**Lesson 4: Describing Position** To describe movements.	**Lesson 1: Writing Roman Numerals for 1 to 20** To write Roman numerals (to 20). **Lesson 2: Writing Roman Numerals to 100** To write Roman numerals to 100
Complete the online lesson: https://classroom.thenational.academy/lessons/to-compare-and-classify-2d-shapes-68r3ed?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-describe-positions-on-a-2d-grid-as-coordinates-c4w66r?step=1&activity=video		**Learn the strategy:** https://vimeo.com/user12106273/review/429161973/dc853da4b7	**Learn the strategy:** https://vimeo.com/user12106273/review/428751393/8d1754ba7e	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-investigate-roman-numerals-up-to-one-hundred-c8ukct?step=2&activity=video
11 Consolidation					
REVIEW: Chapter 9: Money **Chapter 10: Mass, Volume and Length**	**REVIEW: Chapter 11: Area of Figures** **Chapter 12: Geometry**	**Revisit number: Applying and consolidating: Reasoning with 4-digit numbers** In this lesson, we apply and consolidating our knowledge of place value and rounding.	**Revisit decimals and fraction equivalence: Recognising Common Decimal Equivalents** In this lesson, you will explore and identify common decimal equivalents (quarter, half and three quarters).	**Revisit short division**	**Revisit short division with remainders**
Refer to any of the lesson videos from the chapter as a reminder of the strategies used.	Refer to any of the lesson videos from the chapter as a reminder of the strategies used.	**Complete the online lesson:** https://classroom.thenational.academy/lessons/applying-and-consolidating-reasoning-with-4-digit-numbers-64t30d	**Complete the online lesson:** https://classroom.thenational.academy/lessons/recognising-common-decimal-equivalents-6dgk6c	**Learn the strategy:** **Complete the online lesson:** https://classroom.thenational.academy/lessons/short-division-6gt64d	**Learn the strategy:** **Complete the online lesson:** https://classroom.thenational.academy/lessons/division-with-remainders-ccwk6r
12 Consolidation					
Revisit division: Short division (Part 2) In today's lesson, we will be exploring how to use the short division algorithm with multiple regroups.	**Revisit division: Short division (Part 3)** In today's lesson, we will be exploring how to use the short division algorithm, regrouping through zero.	**Revisit Movement Between Positions as Translations of a Given Unit Left/Right or Up/Down 1** Translation of shapes a given number of units up, down, left or right, to develop strategies to reposition these shapes and check that we are working accurately.	**Revisit fractions: Comparing non-unit fractions of quantities** In this lesson, pupils will use bar models to support them in solving worded problems that compare fractions of quantities.	**Revisit fractions: Reasoning with fractions** In this lesson we will apply our knowledge of fractions to three reasoning problems.	**Revisit relationship between area and perimeter and use this knowledge to solve problems** To investigate the relationship between area and perimeter and use this knowledge to solve area and perimeter problems.
Complete the online lesson: https://classroom.thenational.academy/lessons/short-division-part-2-6nk66c	**Complete the online lesson:** https://classroom.thenational.academy/lessons/short-division-part-3-ctj3cr	**Complete the online lesson:** https://classroom.thenational.academy/lessons/to-describe-movement-between-positions-as-translations-of-a-given-unit-leftright-or-updown-1-65h36t	**Complete the online lesson:** https://classroom.thenational.academy/lessons/comparing-non-unit-fractions-of-quantities-6wvk2d	**Complete the online lesson:** https://classroom.thenational.academy/lessons/reasoning-with-fractions-c4vkje	**Complete the online lesson:** https://classroom.thenational.academy/lessons/investigate-the-relationship-between-area-and-perimeter-and-use-this-knowledge-to-solve-problems-cct3cc

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13	Consolidation				
Revisit addition and subtraction of decimal amounts: Mental Addition and Subtraction In this lesson, you will use mental calculation strategies to add and subtract decimal numbers.	**Revisit using symmetry (Part 1)** To recap the knowledge we have developed on symmetry.	**Revisit fractions: Converting mixed numbers into improper fractions** In this lesson, pupils will explore representations to connect mixed numbers and improper fractions, before using multiplication formally to convert mixed numbers.	**Revisit measures problems: Calculate and compare the area of rectangles using square metres (m²)** In this lesson, we will calculate the area of rectangles in square metres and find missing lengths given the area.	**Catch up time**	
Complete the online lesson: https://classroom.thenational.academy/lessons/mental-addition-and-subtraction-70uk4t	**Complete the online lesson:** https://classroom.thenational.academy/lessons/to-investigate-a-problem-using-symmetry-part-1-6cw66t	**Complete the online lesson:** https://classroom.thenational.academy/lessons/converting-mixed-numbers-into-improper-fractions-60rket	**Complete the online lesson:** https://classroom.thenational.academy/lessons/calculate-and-compare-the-area-of-rectangles-using-square-metres-m-c9j64t		