Year 5 summer home learning overview 2020-21

Quality First Education Trust

1 Summer term 1 2020-21					
INSET day	**Recap and review**				
	Recap fractions from year 4	**Recap fractions from year 5**	**Recap decimals**	**Recap percentages**	**Recap formal methods for multiplication and division**
	Learn the strategy: Complete the review of Chapter 6 (Bk 4A): Fractions 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 (Bk 5A) : Fractions** 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: Decimals** 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: 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 3: Multiplication and division** 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 10: Position and Movement**	
Recap geometry for year 4	**Recap geometry for year 5**	**Recap of multiplication and division decimals by 10, 100, 1000**	**Recap of mental strategies for addition and subtraction of decimals**	**Lesson 1: Naming and Plotting Points** To name and plot points.	**Lesson 2: Describing Translations** To describe the position of a shape following a translation.
Learn the strategy: Complete the review of Chapter 12 (Bk 4B): Geometry 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: Geometry** 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 online lesson:** https://classroom.thenational.academy/lessons/multiplying-and-dividing-decimals-by-101001000-6gvk2r	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/applying-mental-calculation-strategies-to-adding-and-subtracting-decimals-cgr3ce	**Learn the strategy:** https://vimeo.com/409775304/bea2fc5a78	**Learn the strategy:** https://vimeo.com/409775671/bc5ed1f76f
3 Chapter 10: Position and Movement			**Ch 11: Measures**		
Lesson 3: Describing Movements To describe movements and reflecting shapes.	**Lesson 4: Describing Movements** To describe the movement of a 2-D shape when reflected.	**Lesson 5:Successive Reflections** To reflect a shape more than once.	**Lesson 1:Converting Units of Length** To convert units of length.	**Lesson 2: Converting Units of Length** To convert units of length, including centimetres and metres.	**Lesson 3: Converting Units of Length** To convert units of length.
Learn the strategy: https://classroom.thenational.academy/lessons/identifying-describing-and-representing-the-position-of-a-shape-following-a-reflection-68rpar?step=2&activity=video	**Learn the strategy:** https://vimeo.com/409776110/1a2ab0e810	**Learn the strategy:** https://vimeo.com/409776589/97113f74e6	**Learn the strategy:** https://vimeo.com/412308669/ca376e5218	**Learn the strategy:** https://vimeo.com/412458115/3732a46fe0	**Learn the strategy:** https://classroom.thenational.academy/lessons/converting-between-metric-units-of-length-6cu3cc?step=2&activity=video

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4 Chapter 11: Measurements					
Lesson 4: Converting Units of Length To solve problems by converting units of length.	**Lesson 5:Converting Units of Mass** To convert units of mass.	**Lesson 6: Converting Units of Mass** To convert units of mass, including grams into kilograms.	**Lesson 7:Converting Units of Mass** To convert units of mass.	**Lesson 8: Converting Units of Mass** To convert units of mass, including kilograms and pounds.	**Recap of improper fractions (part 1)**
Learn the strategy: https://vimeo.com/412266614/85c76f6bd4	**Learn the strategy:** **Reminder:** https://www.bbc.co.uk/bitesize/clips/zbvgkqt **Then:** https://vimeo.com/412458996/a43c32b5cc	**Learn the strategy:** https://vimeo.com/414433992/8cdde028e0	**Learn the strategy:** https://vimeo.com/414477124/bee1c895f5	**Learn the strategy:** **Reminder:** https://www.bbc.co.uk/bitesize/topics/z4nsgk7/articles/zwbndxs **Then:** https://vimeo.com/414524738/d868b9f1d3	**Learn the strategy:** **Complete the online lesson:** https://classroom.thenational.academy/lessons/improper-fractions-part-1-c4tkac
5 Chapter 11: Measurements					
Recap of improper fractions (part 2)	**Lesson 9:Converting Units of Time** To convert units of time.	**Lesson 11: Converting Units of Time** To convert units of time.	*Lesson 12: Converting Units of Time* *To solve problems by converting units of time.*	*Lesson 13: Converting Units of Time* *To convert units of time.*	**Lesson 14: Telling the Temperature** To read the temperature on a thermometer.
Learn the strategy: **Complete the online lesson:** https://classroom.thenational.academy/lessons/improper-fractions-part-2-64upad	**Learn the strategy:** https://classroom.thenational.academy/lessons/converting-between-units-of-time-6gvkjt?step=2&activity=video	**Learn the strategy:** https://vimeo.com/416889362/5c331079f1	**Learn the strategy:** https://vimeo.com/416888103/d83aa98466	**Learn the strategy:** https://vimeo.com/416886359/39bba0bd9d	**Learn the strategy:** https://vimeo.com/416884550/7a340e2ab0
6			Chapter 12: Area and Perimeter		
Recap of fractions and division	**Recap of simplifying fractions**	**Recap of simplifying fractions using the highest common factor**	**Recap year 3 perimeter: Chapter 14 (Bk 3B), Lesson 9: Calculating perimeter** To be able to solve problems on perimeter.	**Lesson 1: Finding the Perimeter** To find the perimeter of shapes.	**Lesson 2: Finding the Perimeter** To find shapes with a specific perimeter.
Learn the strategy: **Complete the online lesson:** https://classroom.thenational.academy/lessons/fractions-and-division-part-1-64u32d **And:** https://classroom.thenational.academy/lessons/fractions-and-division-part-2-6dgk4e	**Learn the strategy:** **Complete the online lesson:** https://classroom.thenational.academy/lessons/simplifying-fractions-c4t6cr	**Learn the strategy:** **Complete the online lesson:** https://classroom.thenational.academy/lessons/simplifying-fractions-using-highest-common-factor-71hk2c	**Learn the strategy:** https://vimeo.com/424323552/59d70f4f01	**Learn the strategy:** https://vimeo.com/424323521/4e2f5d9af8	**Learn the strategy:** https://vimeo.com/424323590/6d7fd67ca6
Half term					

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Summer term 2 2020-21

1 Chapter 12: Area and Perimeter

Lesson 3: Finding the Perimeter To find the perimeter of different shapes	Lesson 4: Using Scale Diagrams to Find the Perimeter To use scale diagrams to find the perimeter of a shape.	Recap year 4 area Chapter 11: Area of Figures: Lessons 2 and 3	Lesson 5: Measuring the Area To measure the area of shapes by counting squares.	Lesson 6: Measuring the Area To measure the area of squares.	Lesson 7: Measuring the Area To measure the area of a shape.
Learn the strategy: https://vimeo.com/424323521/4e2f5d9af8 **And:** https://vimeo.com/424323552/59d70f4f01 **Additional learning:** https://classroom.thenational.academy/lessons/calculate-and-measure-perimeter-crv36r?step=1&activity=video	**Learn the strategy:** https://vimeo.com/424323590/6d7fd67ca6	**Learn the strategy:** **Lesson 2:** https://vimeo.com/user12106273/review/425844398/1408660396 **Lesson 3:** **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	**Learn the strategy:** https://classroom.thenational.academy/lessons/understand-that-area-is-a-measure-of-surface-and-is-measured-in-square-units-part-2-6xj3cc?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/calculate-the-area-of-rectangles-cgupcc?step=2&activity=video **Rectilinear shapes:** https://classroom.thenational.academy/lessons/calculate-the-area-of-rectilinear-shapes-6mr3ar?step=2&activity=video

2 Chapter 12: Area and Perimeter | Yr 4 recap volume | | Chapter 13: Volume

Lesson 8 :Measuring the Area To measure area in square metres.	Lesson 11: Estimating the Area To make an estimation of area in kilometres.	Recap volume liquid year 4: Chapter 10: Volume: Lesson 4: Measuring Volume To measure volume. Lesson 5: Measuring Volume To measure volume.	Recap volume liquid year 4: Chapter 10: Volume: Lesson 6: Converting Units of Volume To convert units of volume.	Lesson 1: Understanding the Volume of Solids To understand the volume of solids.	Lesson 3: Finding the Volume of Solids To find the volume of solids.
Learn the strategy: https://classroom.thenational.academy/lessons/calculate-and-compare-the-area-of-rectangles-using-square-metres-m-c9j64t?step=2&activity=video		**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://vimeo.com/427271112/69062a1937 **And:** https://classroom.thenational.academy/lessons/to-investigate-and-explain-cubed-numbers-6hh38r?step=2&activity=video	**Learn the strategy:** https://vimeo.com/427276443/4b13f4c7bb **And:** https://classroom.thenational.academy/lessons/to-describe-volume-in-cubic-units-6hhkjd?step=2&activity=video

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3 Consolidation					
Revisit multiples and factors Today we will re-familiarise ourselves with the concepts of multiples and factors.	**Revisit formal addition and subtraction: Solving multi-step addition and subtraction problems** In this lesson, we will be applying the addition and subtraction strategies that we have learned to word and real-life problems.	**Consolidation and Review** Reviewing our understanding of multiples and factors; multiplying and dividing by 10, 100, 1000; mental strategies for efficient mental calculation and finishing off the lesson by consolidating our familiarity with formal methods of multiplication and division	**Revisit addition and subtraction fractions: Add and subtract fractions with a common denominator: Improper fractions** In this lesson we will learn how to add and subtract improper fractions and mixed number fractions with a common denominator.	**Revisit percentages: Understanding percentage** In this lesson we will learn how to find simple percent and what percentage means.	**Revisit converting between fractions, decimals, and percentages: Percentage as a fraction and decimal** In this lesson we will learn how to link simple percent to fractions and decimals in context.
Learn the strategy: Complete the online lesson: https://classroom.thenational.academy/lessons/multiples-and-factors-6gr32d	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/solving-multi-step-addition-and-subtraction-problems-ctk66d	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/consolidation-and-review-ccr62t	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/add-and-subtract-fractions-with-a-common-denominator-improper-fractions-6cw62d	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/understanding-percentage-6gvpad	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/percentage-as-a-fraction-and-decimal-6mrk0r

4 Chapter13: Volume	Consolidation				
Lesson 4: Finding the Capacity of Rectangular Boxes To find the capacity of a cuboid.	**Revisit reading methods of organisation of data: Consolidation and review** Today we will be reviewing the entire unit of line graphs and timetables by completing a series of challenges and problems based on the different concepts taught across all of the lessons throughout the unit. This lesson can be watched in its entirety or specific sections can be visited if pupils wish to focus their learning and consolidation on a specific concept.	**Revisit geometry problems: Calculating angles on a line or around a point** In this lesson we will learn how to calculate angles on a straight line, vertically opposite angles and angles around a point.	**Revisit measures problems: Solving problems involving converting between units of time** Students solve worded problems which compare different units of time.	**Revisit measures problems: Solving problems involving converting between units of metric mass** Word problems and problem solving activities for students to complete involving metric mass	**Revisit measures problems: Solving problems involving various units of measure** Word problems that challenge us to convert between various units of measures previously covered in the unit.
Learn the strategy: https://vimeo.com/427276443/4b13f4c7bb	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/consolidation-and-review-6cvkjd	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/calculating-angles-on-a-line-or-around-a-point-69h66t	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/solving-problems-involving-converting-between-units-of-time-6crp8e	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/solving-problems-involving-converting-between-units-of-metric-mass-69h66e	**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/solving-problems-involving-various-units-of-measure-68v3ae

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5 Consolidation

Lesson 6:Converting Units of Volume To compare and convert units of volume.	Revisit formal calculation (word problems and decimal amounts): Solving problems with decimals using addition and subtraction In this lesson we will solve addition and subtraction problems with decimals.	Revisit formal calculation (word problems and decimal amounts): Problem-solving with decimals in context In this lesson we will solve problems with decimals through bar models in a variety of real life contexts, converting units of measure where appropriate.	Revisit formal calculation Problem-solving with multiplication: In this lesson we will review the various methods of multiplication covered throughout this unit: area, formal written method and mentally derived facts.	Revisit fractions: Add and subtract fractions fluency In this lesson we will learn how to count fluently in fractions and fluently add and subtract a range of fractions.	Revisit fractions: Further practice with equivalent fractions Further practice using examples to deepen and consolidate learning.
Learn the strategy: https://classroom.thenational.academy/lessons/to-convert-units-of-volume-c9h3cr?step=2&activity=video	Complete the online lesson: https://classroom.thenational.academy/lessons/solving-problems-with-decimals-using-addition-and-subtraction-6gu6ad	Complete the online lesson: https://classroom.thenational.academy/lessons/problem-solving-with-decimals-in-context-60u3gd	Complete the online lesson: https://classroom.thenational.academy/lessons/problem-solving-with-multiplication-6mwpat	Complete the online lesson: https://classroom.thenational.academy/lessons/add-and-subtract-fractions-fluency-75j3jc	Complete the online lesson: https://classroom.thenational.academy/lessons/further-practice-with-equivalent-fractions-6rt66t

6 Consolidation / Chapter 13: Volume

Revisit fractions: Finding the Highest Common Factor to Simplify In this lesson, we simplify a fraction when the numerator is not the highest common factor.	Revisit fractions: Further practice and application This lesson offers further practice and application of simplifying fractions.	Revisit shape:2D and 3D shape: To identify, describe and classify shapes based on the properties (Part 2) In today's lesson, we continue to think about 2D and 3D shapes, including parallel lines and lines of symmetry.	Revisit shape: 2D and 3D shape: Classifying shapes In today's lesson we will identify, compare and classify shapes based on their properties.	Lesson 7:Converting Units of Volume To convert units of volume (metric and imperial).	Lesson 8:Converting Units of Volume To convert units of volume (metric and imperial).
Complete the online lesson: https://classroom.thenational.academy/lessons/finding-the-highest-common-factor-to-simplify-crwkcd	Complete the online lesson: https://classroom.thenational.academy/lessons/further-practice-and-application-c5hkcr	Complete the online lesson: https://classroom.thenational.academy/lessons/2d-and-3d-shape-to-identify-describe-and-classify-shapes-based-on-the-properties-part-2-6mrkgt	Complete the online lesson: https://classroom.thenational.academy/lessons/2d-and-3d-shape-classifying-shapes-crrk8d	Learn the strategy: https://vimeo.com/429234583/998a9eb08f	

7 Chapter 14: Roman Numerals

Recap year 4 Roman Numerals: Chapter 14, Lesson 2	Lesson 1: Writing Roman Numerals to 1000 To write Roman numerals to 1000.	Lesson 2: Writing Years in Roman Numerals To write numbers in their thousands in Roman numerals.	Revisit number: Rounding 6-digit numbers to the nearest 1000, 10 000 and 100 000 In this lesson, we will be using number lines to round 6-digit numbers to the nearest multiple of 1000, 10 000 and 100 000.	Revisit number: Solving problems involving place value and rounding In this lesson, we will be applying our knowledge of place value and rounding to different problems using these strategies.	Revisit number: Solving problems involving rounding In this lesson, we will use knowledge of rounding to the nearest 1000, 10 000 and 100 000 to solve problems involving rounding.
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/investigating-roman-numerals-up-to-1000-61k32r?step=2&activity=video		Complete the online lesson: https://classroom.thenational.academy/lessons/rounding-6-digit-numbers-to-the-nearest-1000-10-000-and-100-000-65gked	Complete the online lesson: https://classroom.thenational.academy/lessons/solving-problems-involving-place-value-and-rounding-c9k66d	Complete the online lesson: https://classroom.thenational.academy/lessons/solving-problems-involving-rounding-74ukac