

Year 5 summer home learning overview 2021-22

1 Summer term 1 2021-22		Chapter 9: Geometry			
Bank Holiday	INSET day	Lesson 4: Investigating Angles on a Line To measure angles using a protractor. To identify two angles which add up to 180° on a straight line.	Lesson 5: Investigating Angles at a Point To investigate angles that, when combined, make 360°.	Lesson 6: Drawing Angles To draw angles using a protractor.	Lesson 6: Drawing Angles (over 2 days)
		Learn the strategy: https://classroom.thenational.academy/lessons/calculating-angles-on-a-line-or-around-a-point-69h66f?step=2&activity=video		Learn the strategy: https://classroom.thenational.academy/lessons/draw-angles-with-a-protractor-1-60rp4e?step=2&activity=video Then: https://classroom.thenational.academy/lessons/draw-angles-with-a-protractor-part-2-65hk4e?step=2&activity=video	
2 Chapter 9: Geometry					
Lesson 8: Describing Squares and Rectangles To describe the sides and angles of both rectangles and squares.	Lesson 9: Investigating Angles in Squares and Rectangles To investigate the angles of various quadrilaterals, including squares and rectangles.	Lesson 10: Solving Problems Involving Angles in Rectangles To solve problems involving angles in rectangles.	Lesson 13: Investigating Regular Polygons To investigate regular polygons.	ADDITIONAL LESSON: 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.	REVIEW: Chapter 9: Geometry
Learn the strategy: https://classroom.thenational.academy/lessons/to-compare-and-classify-quadrilaterals-6rv62f?step=2&activity=video	Learn the strategy: https://vimeo.com/412302740/51f3e58179 And https://classroom.thenational.academy/lessons/calculating-angles-within-a-shape-part-2-60u3jr?step=2&activity=video	Learn the strategy: (up to 7 minutes and 50 seconds) https://classroom.thenational.academy/lessons/calculating-angles-within-a-shape-3-c5h3jr?step=2&activity=video	Complete the online lesson: https://classroom.thenational.academy/lessons/calculating-angles-on-a-line-or-around-a-point-69h66f	Complete the review for this chapter. Refer to any of the lesson videos as a reminder for strategies to use.	
3 Chapter 10: Position and Movement					
May Bank Holiday	Revisit formal multiplication of whole numbers	Revisit formal multiplication and division of whole numbers	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.	Lesson 3: Describing Movements To describe movements and reflecting shapes.
	Complete the online lesson: https://classroom.thenational.academy/lessons/multiplying-a-3-digit-number-by-a-2-digit-number-cmwpa	Complete the online lesson: https://classroom.thenational.academy/lessons/short-division-part-1-6gr6ar	Learn the strategy: https://vimeo.com/409775304/bea2fc5a78	Learn the strategy: https://vimeo.com/409775671/bc5ed1f76f	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

Year 5 summer home learning overview 2021-22

4 Chapter 10: Position and Movement			Chapter 11: Measurements		
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.	Revisit year 4 Time: Solving Word Problems To solve word problems (duration).	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://vimeo.com/409776110/1a2ab0e810	Learn the strategy: https://vimeo.com/409776589/97113f74e6	Complete the online lesson: https://classroom.thenational.academy/lessons/further-applying-knowledge-of-time-to-solve-problems-ctgkqd	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
5 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.	Lesson 9: Converting Units of Time To convert units of time.
Learn the strategy: https://vimeo.com/412266614/85c76f6bd4	Learn the strategy: Reminder: https://www.bbc.co.uk/bitesize/clips/zbvqkqt Then: https://vimeo.com/412458996/a43c32b5cc	Learn the strategy: https://vimeo.com/414433992/8cdde028e0	Learn the strategy: https://vimeo.com/414477124/befe1c895f5	Learn the strategy: Reminder: https://www.bbc.co.uk/bitesize/topics/z4nsgk7/articles/zwbndxs Then: https://vimeo.com/414524738/d868b9f1d3	Learn the strategy: https://classroom.thenational.academy/lessons/converting-between-units-of-time-6gvkj?step=2&activity=video
6 Chapter 11: Measurements		Chapter 12: Area and Perimeter			
Lesson 11: Converting Units of Time To convert units of time.	Lesson 14: Telling the Temperature To read the temperature on a thermometer.	Lesson 1: Finding the Perimeter To find the perimeter of shapes.	Lesson 2: Finding the Perimeter To find shapes with a specific perimeter.	Catch up time	Catch up time
Learn the strategy: https://vimeo.com/416889362/5c331079f1	Learn the strategy: https://vimeo.com/416884550/7a340e2ab0	Learn the strategy: https://vimeo.com/424323521/4e2f5d9af8	Learn the strategy: https://vimeo.com/424323590/6d7fd67ca6		
Half term					

Year 5 summer home learning overview 2021-22

1 Summer term 2 2021-22 Chapter 12: Area and Perimeter					
Lesson 3: Finding the Perimeter To find the perimeter of different shapes	Lesson 4: Using Scale Diagrams to Find Perimeter To use scale diagrams to find perimeter of a shape.	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.	Lesson 8 :Measuring the Area To measure area in square metres.
Learn the strategy: https://vimeo.com/424323521/4e2f5d9af8 And: https://vimeo.com/424323552/59d70f4f01	Learn the strategy: https://vimeo.com/424323590/6d7fd67ca6	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	Learn the strategy: https://classroom.thenational.academy/lessons/calculate-and-compare-the-area-of-rectangles-using-square-metres-m-c9j64f?step=2&activity=video
Additional learning: https://classroom.thenational.academy/lessons/calculate-and-measure-perimeter-crv36r?step=1&activity=video					
2 Consolidation					Chapter 13: Volume
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 To apply the addition and subtraction strategies that we have learned to word and real-life problems.	Consolidation and Review To review our understanding of multiples and factors; multiplying and dividing by 10, 100, 1000; mental strategies for efficient mental calculation and consolidating formal methods of multiplication and division	Revisit fractions: Add and subtract fractions with a common denominator: Improper fractions To learn how to add and subtract improper fractions and mixed number fractions with a common denominator.	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.	Lesson 1: Understanding the Volume of Solids To understand the volume of solids.
Complete the online lesson: https://classroom.thenational.academy/lessons/multiples-and-factors-6qr32d	Complete the online lesson: https://classroom.thenational.academy/lessons/solving-multi-step-addition-and-subtraction-problems-ctk66d	Complete the online lesson: https://classroom.thenational.academy/lessons/consolidation-and-review-ccr62t	Complete the online lesson: https://classroom.thenational.academy/lessons/add-and-subtract-fractions-with-a-common-denominator-improper-fractions-6cw62d	Complete the online lesson: https://classroom.thenational.academy/lessons/add-and-subtract-fractions-fluency-75j3jc	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
3 Chapter 13: Volume					
Lesson 3: Finding the Volume of Solids To find the volume of solids.	Recap volume liquid year 4: Chapter 10: Volume: Lesson 4: Measuring Volume To measure volume.	Recap volume liquid year 4: Chapter 10: 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.	Catch up time	Lesson 4: Finding the Capacity of Rectangular Boxes To find the capacity of a cuboid.
Learn the strategy: https://vimeo.com/427276443/4b13f4c7bb And: https://classroom.thenational.academy/lessons/to-describe-volume-in-cubic-units-6hhkid?step=2&activity=video	Learn the strategy: Reminder: https://classroom.thenational.academy/lessons/converting-measurements-cdj62t?step=2&activity=video	Learn the strategy: 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/427276443/4b13f4c7bb

Year 5 summer home learning overview 2021-22

4 Chapter 13: Volume			Chapter 14: Roman Numerals		
Lesson 6: Converting Units of Volume To compare and convert units of volume.	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).	Recap year 4 Roman Numerals: Roman Numerals up to 100	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.
Learn the strategy: https://classroom.thenational.academy/lessons/to-convert-units-of-volume-c9h3cr?step=2&activity=video	Learn the strategy: https://vimeo.com/429234583/998a9eb08f		Complete the online lesson: https://classroom.thenational.academy/lessons/investigating-roman-numerals-up-to-100-6guk8c	Learn the strategy: https://classroom.thenational.academy/lessons/investigating-roman-numerals-up-to-1000-61k32r?step=2&activity=video	
5 Consolidation					
Revisit rounding 6-digit numbers to the nearest 1000, 10 000 and 100 000 To use number lines to round 6-digit numbers to the nearest multiple of 1000, 10 000 and 100 000.	Revisit formal calculation (word problems and decimal amounts): Problem-solving with decimals in context To solve problems with decimals through bar models in a 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 problem solving using all four operations To solve a multi-step problem using all four operations; addition, subtraction, multiplication and division.	Solving problems involving division with remainders (Part 1) To investigate and model division problems, and interpret remainders.	Solving problems involving division with remainders (Part 2) To investigate and model division problems to allow opportunities to practise interpreting remainders.
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/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/problem-solving-using-all-four-operations-69k32d	Complete the online: https://classroom.thenational.academy/lessons/solving-problems-involving-division-with-remainders-part-1-cqt68c	Complete the online lesson: https://classroom.thenational.academy/lessons/solving-problems-involving-division-with-remainders-part-2-6muk4d
6 Consolidation					
Revisit finding the Highest Common Factor to Simplify To simplify a fraction when the numerator is not the highest common factor.	Revisit simplifying fractions: To further practice and application of simplifying fractions.	Revisit improper fractions (part 1 & 2)	Revisit calculating non-unit fractions of quantities To solve word problems; to find non-unit fractions of quantities.	Revisit equivalent fractions Further practice using examples to deepen and consolidate learning.	Revisit simplifying fractions using the highest common factor
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-c5hkrc	Complete the online lesson: https://classroom.thenational.academy/lessons/improper-fractions-part-1-c4lkac Then: Complete the online lesson: https://classroom.thenational.academy/lessons/improper-fractions-part-2-64upad	Complete the online lesson: https://classroom.thenational.academy/lessons/calculating-non-unit-fractions-of-quantities-cmp4e	Complete the online lesson: https://classroom.thenational.academy/lessons/further-practice-with-equivalent-fractions-6rt66t	Complete the online lesson: https://classroom.thenational.academy/lessons/simplifying-fractions-using-highest-common-factor-71hk2c

Year 5 summer home learning overview 2021-22

7 Consolidation					
Revisit angle fluency facts To revise all the topics from this unit and focus how to apply all these skills fluently and efficiently.	Revisit geometry: Calculate the area of rectilinear shapes To calculate the area of rectilinear shapes by splitting them into two or more rectangles	Catch up time	Catch up time	Catch up time	
Complete the online lesson: https://classroom.thenational.academy/lessons/revision-and-angle-fluency-facts-6nhk6d	Complete the online lesson: https://classroom.thenational.academy/lessons/calculate-the-area-of-rectilinear-shapes-6mr3ar				