Year 3 summer home learning overview 2021-22

Quality First Education Trust

1 Summer term 1 2021-22		**Chapter 9: Time**		**Chapter 10: Picture Graphs and Bar Graphs**	
Bank Holiday	INSET day	**Lesson 14: Measuring Time in Minutes** To measure the passage of time in minutes using an analogue clock and a timeline.	**Lesson 15: Measuring Time in Minutes** To measure time to the minute when it crosses into the next hour.	**Revisit year 2: Chapter 8: Picture Graphs: Lesson 3: Reading Picture Graphs** To read picture graphs-picture can represent more than 1.	**Lesson 1: Drawing Picture Graphs** To construct picture graphs from a set of data; to present data with pictures that represent more than one.
		Learn the strategy: https://classroom.thenational.academy/lessons/calculating-and-comparing-intervals-of-time-6gw3jc?step=1&activity=video	**Learn the strategy:(up to 4 minutes and 17 seconds)** https://classroom.thenational.academy/lessons/further-applying-knowledge-of-time-to-solve-problems-ctgkgd?step=1&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/representing-data-in-a-tally-chart-and-pictogram-cmwk6r?step=2&activity=video	**Introduction to pictograms/ picture graphs:** https://classroom.thenational.academy/lessons/reading-and-understanding-pictograms-6xj62c?step=1&activity=video **Learn the strategy:** https://classroom.thenational.academy/lessons/constructing-pictograms-6rw6ar?step=2&activity=video **Or:** https://vimeo.com/410946328/97faa86596

2 Chapter 10: Picture Graphs and Bar Graphs				**Recap year 2 Chapter 13: Fractions**	
Lesson 2: Drawing Bar Graphs To construct bar graphs from a set of data; to use proportion to reflect precise difference in quantity.	**Lesson 3: Reading Bar Graphs** To read and interpret bar graph; to use and understand vocabulary related to bar graphs.	**Lesson 4: Reading Bar Graphs** To read bar graphs where the scale is not a multiple of all quantities measured.	**Lesson 5: Reading Bar Graphs** To read bar graphs where the scale is made up of larger increments.	**Recap year 2 Fractions: Chapter 13: Lesson 8: Comparing & Ordering Fractions** To order fractions-different denominators.	**Recap year 2 Fractions Chapter 13: Lesson 9: Counting Wholes and Parts** To count number of wholes & parts to form mixed numbers.
Learn the strategy: https://vimeo.com/410949271/8c97786816	**Learn the strategy:** https://classroom.thenational.academy/lessons/reading-and-interpreting-bar-graphs-chhk6c?step=2&activity=video **Or:** https://vimeo.com/410210106/48511db543	**Learn the strategy: (up to 6 minutes and 6 seconds)** https://classroom.thenational.academy/lessons/reading-and-interpreting-bar-graphs-chhk6c?step=2&activity=video **Or:** https://vimeo.com/410211036/fdf0442e85	**Learn the strategy:** https://vimeo.com/409780655/edfab0f88f	**Learn the strategy:** https://vimeo.com/418825931/1aa8a5597e **Fraction wall:** https://mathsbot.com/manipulatives/fractionWall	**Learn the strategy: (up to 5 minutes and 22 seconds only)** https://classroom.thenational.academy/lessons/building-wholes-74vpcd?step=1&activity=video

3 Recap year 2 Chapter 13: Fractions					
May bank holiday	**Combined lesson:** **Year 2, Chapter 13: Lesson 10: Counting in Halves** To count in halves on a number line using pictures. **Chapter 13: Lesson 11 : Counting in Quarters** To count in quarters on a number line using pictures.	**Year 2, Chapter 13: Lesson 12: Counting in Thirds** To count in thirds and place thirds on a number line using pictures.	**Year 2, Chapter 13: Lesson 13: Finding Part of a Set** To find fractions (half) of whole numbers.	**Year 2, Chapter 13: Lesson 14: Finding Part of a Set** To find a fraction (third) of a whole number.	**Year 2, Chapter 13: Lesson 15: Finding Part of a Set** To find a fraction (quarter) of a number.
	Learn the strategy: https://vimeo.com/418827203/bc48184e62 **AND Learn the strategy:** https://vimeo.com/418414616/a7ccb5eadf	**Learn the strategy:** https://vimeo.com/420267548/7f9e227e31	**Learn the strategy:** https://vimeo.com/420269459/7a8937fecc	**Learn the strategy:** https://vimeo.com/421472143/c24c37dc47	**Learn the strategy:** https://vimeo.com/421499646/babb77c141

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4 Chapter 11: Fractions					
Lesson 1: Counting in Tenths To count in tenths; to recognise tenths and be able to determine how many tenths are shaded.	**Lesson 2: Making Number Pairs** To make number pairs to create 1; to combine fractions to make 1.	**Combined lesson:** <u>**Lesson 3 and 4: Adding Fractions**</u> To add fractions with the same denominator to 1.	**Lesson 5: Subtracting Fractions** To subtract fractions with the same name.	**Lesson 6: Finding Equivalent Fractions** To find equivalent fractions through paper folding and shading.	**Lesson 7: Finding Equivalent Fractions** To find equivalent fractions using paper folding and shading.
<u>**Learn the strategy:**</u> https://vimeo.com/412245221/90c9d59c28	<u>**Learn the strategy:**</u> https://vimeo.com/412341663/844c400f2e	<u>**Learn the strategy:**</u> https://vimeo.com/414683843/03a266864b <u>**And:**</u> https://vimeo.com/412710096/93cb56f6f9	<u>**Learn the strategy:**</u> https://vimeo.com/413036415/c5a4e1daa8	<u>**Learn the strategy:**</u> https://vimeo.com/414722907/0595d87f96	<u>**Learn the strategy:**</u> https://classroom.thenational.academy/lessons/fractions-recognising-equivalent-fractions-2-ccr38c?step=2&activity=video

5 Chapter 11: Fractions					
Lesson 8: Finding Equivalent Fractions To find equivalent fractions; to place fractions on a number line.	**Lesson 9: Finding Equivalent Fractions** To find fractions equivalent to 1/2; use pictorial representations and multiplication to show equivalence.	**Lesson 10: Finding Equivalent Fractions** To find equivalent fractions using concrete objects and pictorial representations.	**Lesson 12: Finding the Simplest Fraction** To find the simplest fraction using visualisation and concrete materials.	**Lesson 13: Finding the Simplest Fraction** To find the simplest fraction using pictorial representations and division.	**Lesson 14: Finding Equivalent Fractions** To find equivalent fractions using multiplication and division; to determine whether or not a fraction is equivalent.
<u>**Learn the strategy:**</u> https://vimeo.com/415101199/90a01e78bb	<u>**Learn the strategy:**</u> https://vimeo.com/415104079/76c4efc622	<u>**Learn the strategy:**</u> https://vimeo.com/417189609/27188c0061	<u>**Learn the strategy:**</u> https://vimeo.com/417571675/8b956b3cbe	<u>**Learn the strategy:**</u> https://vimeo.com/417202640/0caa55b328	<u>**Learn the strategy:**</u> https://vimeo.com/417234426/0e869afbf9

6 Chapter 11: Fractions					
Lesson 15: Comparing Fractions To compare the fractions 1/2 and 1/4 using pictorial representations and concrete materials.	**Lesson 16: Comparing Fractions** To compare fractions using pictorial representations; to understand the numerical nature of the numerator.	*Lesson 18: Adding Fractions* *To add fractions using pictorial representations; to simplify fractions after adding them.*	**Lesson 21: Finding Part of a Set** To determine a fraction of a whole number using pictorial representations.	**Lesson 22: Finding Part of a Set** To find a fraction of a whole number using pictorial representations, multiplication and concrete objects.	**Catch up time**
<u>**Learn the strategy:**</u> https://vimeo.com/418053312/1280e10df4	<u>**Learn the strategy:**</u> https://classroom.thenational.academy/lessons/comparing-fractions-with-the-same-denominator-c4vkar?step=2&activity=video	<u>**Learn the strategy:**</u> https://classroom.thenational.academy/lessons/fractions-adding-fractions-with-the-same-denominator-c9k3jc?step=2&activity=video	<u>**Learn the strategy:**</u> <u>**First:**</u> https://vimeo.com/419965750/22fe324141 <u>**Then:**</u> https://vimeo.com/419968659/fc30253f01 <u>**Finally:**</u> https://vimeo.com/419974092/e35be4bbb5	<u>**Learn the strategy:**</u> https://vimeo.com/419958568/e1003a04ea	

Half term

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1 Summer 2 2021-22 Chapter 11: Fractions					
Lesson 23: Finding the Fraction of a Number To consolidate finding the fraction of a whole number.	**Lesson 24: Sharing One** To divide 1 between more than 1; to share 1 whole equally between more than 1.	**Lesson 25: Sharing More Than 1** To share more than 1 using pictorial representations and division.	**Lesson 26: Sharing More Than 1** To share more than 1; to recognise whole & parts in pictures & number lines.	**Lesson 27: Sharing More Than 1** To show more than 1 whole after sharing a number of items equally; to use pictorial representations to share whole items equally.	Catch up time Or complete the review of **Chapter 11: Fractions**
Learn the strategy: https://classroom.thenational.academy/lessons/to-find-unit-fractions-of-a-given-quantity-61k34t?step=2&activity=video	**Learn the strategy:** https://vimeo.com/420273555/3e1d294e77	**Learn the strategy:** https://vimeo.com/424772177/117473b18c	**Learn the strategy:** https://vimeo.com/424811874/91e2168891	**Learn the strategy:** **Use the video from yesterday as a reminder:** https://vimeo.com/424811874/91e2168891	
2 Consolidation				**Chapter 12: Angles**	
Revisit addition and subtraction word problems: Solving addition and subtraction word problems This lesson will consolidate learning on column addition and subtraction by moving onto applying this knowledge to word problems.	**Revisit addition and subtraction word problems: Solving word problems with unknown values** In this lesson we will be answering addition and subtraction word problems which require us to identify the unknown quantity.	**Revisit multiplying numbers by 10 and 100** To multiply numbers by 10 and 100. We will investigate the patterns that occur when multiplying numbers by 10 and 100, and describe these patterns using place value and place holders.	**Revisit multiplication and division knowledge (Part 2)** To revisit the use of factors and products to help solve multiplication and division problems, and revise the effects of multiplying a number by ten.	**ADDITIONAL LESSON: Recap properties of shape: Identifying 2-D shapes on the surfaces of 3D shapes** In this lesson, you will be identifying 2-D shapes on the surfaces of 3D shapes	**Combined lesson: Lesson 1: Making Angles** To learn what makes an angle and identify angles.
Complete the online lesson: https://classroom.thenational.academy/lessons/solving-addition-and-subtraction-word-problems-6mw3ct	**Complete the online lesson:** https://classroom.thenational.academy/lessons/solving-word-problems-with-unknown-values-cgtpcd	**Complete the online lesson:** https://classroom.thenational.academy/lessons/multiplying-numbers-by-10-and-100-6tgpac	**Complete the online lesson:** https://classroom.thenational.academy/lessons/consolidating-multiplication-and-division-knowledge-part-2-cdhk0t	**Complete the online lesson:** https://classroom.thenational.academy/lessons/identifying-2-d-shapes-on-the-surfaces-of-3d-shapes-70wk8c	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-identify-and-recognise-angles-cgu6cc?step=1&activity=video

3	**Chapter 12: Angles**				
Lesson 2: Making Angles To see angles inside & outside objects; to find angles in letters.	**Lesson 3: Finding Angles in Shapes** To find angles in shapes; to determine the relationship between the number of angles in a shape and the number of sides.	**Lesson 4: Finding Right Angles** To find right angles in everyday objects; to understand what makes a right angle.	**Lesson 5: Comparing Angles** To compare angles using terms 'right' angle & 'acute' angle; to identify acute as smaller than right angles.	**Lesson 6: Comparing Angles** To identify right and acute angles; to recognise & define an obtuse angle.	**Lesson 7: Making Turns** To make turns using angles vocabulary; to align the language of angles and fractions to describe turns.
Learn the strategy: https://classroom.thenational.academy/lessons/to-identify-and-recognise-angles-cgu6cc?step=1&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-identify-angles-inside-2d-shapes-71h38d?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-recognise-right-angles-6ww34d?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-recognise-obtuse-and-acute-angles-ccwk6c?step=2&activity=video **And:** https://vimeo.com/427048508/9d1e2f502c		**Learn the strategy:** https://vimeo.com/427306848/1b57c28bbd **Recap angles:** https://classroom.thenational.academy/lessons/to-revise-angles-chjkgr?step=2&activity=video

4 Chapter 13: Lines and Shapes					**Chapter 14: Perimeter**
Lesson 1: Identifying Perpendicular Lines To identify, define and create perpendicular lines; to find perpendicular lines in everyday objects.	**Lesson 2: Identifying Parallel Lines** To identify, define and create parallel lines; to find parallel lines in everyday objects.	**Lesson 3: Finding Vertical and Horizontal Lines** To define and identify vertical and horizontal lines; to find vertical and horizontal lines in everyday life.	**Lesson 5: Drawing Two-Dimensional Shapes** To draw 2-D shapes in proportion to their size; to identify how big a shape is	**Combined lesson:** **Lesson 6: Making Three-Dimensional Shapes** To create 3-D shapes from nets; to use vocabulary related to 3-D shapes and their properties. **Lesson 7: Making Three-Dimensional Shapes** To construct 3-D shapes out of clay and discuss their properties. *INCLUDE*: naming 3D shapes and their properties.	**Combined lesson:** **Lesson 1: Measuring Total Length Around a Shape** To determine the perimeter of basic shapes; to use grid paper to measure the perimeter. **Lesson 2: Measuring Perimeter** To measure perimeter using 1cm grid paper.
Learn the strategy: https://classroom.thenational.academy/lessons/to-identify-perpendicular-lines-cguk0r?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-identify-and-explain-parallel-lines-cdh3ct?step=2&activity=video	**Learn the strategy:** https://vimeo.com/427380500/a3e88af5c6	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-draw-2-d-shapes-based-on-their-properties-6xgk2c?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-describe-the-properties-of-3d-shapes-cdjkgd?step=2&activity=video	**Learn the strategy:** https://vimeo.com/428408495/940b91162d

5 Chapter 14: Perimeter		Consolidation			
Lesson 3: Measuring Perimeter To determine the perimeter of different shapes; to create shapes with a specific perimeter.	**REVIEW: Complete the reviews for: Chapter 12: Angles Chapter 13: Lines and Shapes Chapter 14: Perimeter**	**Revisit mental strategies: Using commutativity and associativity to multiply** To use known facts & laws of commutativity and associativity to multiply.	**Recap of addition and subtraction problems**	**Recap division using partitioning**	**Making links between multiplication and division knowledge**
Learn the strategy: https://vimeo.com/428424124/06af5902fa		**Complete the online lesson:** https://classroom.thenational.academy/lessons/using-commutativity-and-associativity-to-multiply-71j38c	**Complete the online lesson:** https://classroom.thenational.academy/lessons/solving-word-problems-with-unknown-values-cgtpcd	**Complete the online lesson:** https://classroom.thenational.academy/lessons/dividing-by-a-one-digit-number-no-regrouping-c5jkar	**Complete the online lesson:** https://classroom.thenational.academy/lessons/consolidating-multiplication-and-division-knowledge-part-2-cdhk0t
6 Consolidation					
Revisit fractions: Recognising fractions as different representations In this lesson we will explore different ways of representing fractions including as part of a whole, as a number, as a result of division and as part of a set.	**Revisit fractions: Compare and order unit fractions** In this lesson, we will explore the size of different unit fractions. We will compare and order these fractions, focusing on their denominators before we apply this knowledge to compare unit fractions of the same quantity.	**Revisit equivalent fractions: Recognising equivalent fractions (Part 2)** In this lesson, we will continue to explore fractions with different denominators and numerators that are equal to each other, focusing on thirds and sixths.	**Revisit fractions: Fractions: To revise learning on fractions** In this lesson, we will be revising fractions.	**Revisit fractions: To revise learning on fractions** In this lesson, we will be revising fractions. Looking at fractions as equal parts of a whole, how these can be represented in different ways, as well as unit and non-unit fractions, adding and subtracting fractions with the same denominator and equivalent fractions.	**Revisit fractions: Adding fractions with the same denominator** In this lesson, we will be using your knowledge of addition to add fractions with the same denominator. We will use lots of different pictures of fractions, as well as the part/whole model to help us.
Complete the online lesson: https://classroom.thenational.academy/lessons/recognising-fractions-as-different-representations-64w3ed	**Complete the online lesson:** https://classroom.thenational.academy/lessons/compare-and-order-unit-fractions-68u34e	**Complete the online lesson:** https://classroom.thenational.academy/lessons/fractions-recognising-equivalent-fractions-2-ccr38c	**Complete the online lesson:** https://classroom.thenational.academy/lessons/fractions-revising-fractions-6wtkac	**Complete the online lesson:** https://classroom.thenational.academy/lessons/fractions-revising-fractions-6wtkac	**Complete the online lesson:** https://classroom.thenational.academy/lessons/fractions-adding-fractions-with-the-same-denominator-c9k3jc

7 Consolidation					
Revisit fractions: Subtracting fractions with the same denominator In this lesson, we will be using your knowledge of subtraction to take-away fractions with the same denominator. We will use lots of different pictures of fractions, as well as the part/whole model to help us.	**Revisit fractions of amounts: Finding non-unit fractions of quantities** In this lesson, we will revisit what a non-unit fraction is. We will then use a 'bar modelling' strategy to help us calculate non-unit fractions of amounts.	**Revisit fractions of amounts: Consolidating finding non-unit fractions of quantities** In this lesson, we will use our knowledge of fractions to consolidate finding non-unit fractions of a given quantity	**Catch up time**	**Catch up time**	
Complete the online lesson: https://classroom.thenational.academy/lessons/fractions-subtracting-fractions-with-the-same-denominator-c9jker	**Complete the online lesson:** https://classroom.thenational.academy/lessons/finding-non-unit-fractions-of-quantities-c5jp4d	**Complete the online lesson:** https://classroom.thenational.academy/lessons/consolidating-finding-non-unit-fractions-of-quantities-6rwk8t			