Quality First Education Trust

1 Spring term 1 2020-21					
INSET day	**Recap lesson**	**Chapter 9: Length and Height**			
	Use of part-whole model for addition and subtraction. Counting forward and back on a numberline.	**Lesson 1: Comparing Height and Length (over 2 days)** To compare height and length using key terminology.	**Lesson 1: Comparing Height and Length (over 2 days)**	**Lesson 2: Measuring Length Using Things (over 2 days)** To measure objects using other items, such as pencils or books.	**Lesson 2: Measuring Length (over 2 days)**
	Learn the strategy: Addition: https://classroom.thenational.academy/lessons/to-add-by-counting-on-using-a-number-line-ccukct?step=1&activity=video **Subtraction:** https://classroom.thenational.academy/lessons/to-subtract-by-counting-back-using-a-number-line-cgr36d?step=2&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-compare-lengths-and-heights-of-objects-6wrpce?step=1&activity=video		**Learn the strategy:** https://classroom.thenational.academy/lessons/to-measure-lengths-using-non-standard-units-part-2-6ngkac?step=2&activity=video	

2 Chapter 9: Length and Height			**Chapter 10: Numbers to 40**		
Lesson 3: Measuring Height and Length Using Body Parts To be able to measure items using other things – parts of the body in particular.	**Lesson 4: Measuring Height and Length Using a Ruler** To introduce the concept of using rulers for measuring.	**Embed and review length and height**	**Lesson 1: Counting to 40 (over 2 days)** To use the making 10 strategy to count numbers above 10; to represent numbers on a number line.	**Lesson 1: Counting to 40 (over 2 days)**	**Lesson 2: Writing Numbers to 40 (over 2 days)** To use the ten-frame method of organisation and place-value cards to assist pupils in writing numbers to 40; to encourage multiple ways of counting, such as counting by 2, 5 & 10.
Learn the strategy: https://classroom.thenational.academy/lessons/to-measure-lengths-using-non-standard-units-part-1-64v30t?step=2&activity=video	**Learn the strategy: (up to 6 minutes and 2 seconds)** https://classroom.thenational.academy/lessons/using-standard-and-non-standard-units-when-measuring-cnh3jr?step=1&activity=video	**Complete the review of Chapter 9: Length and height** Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure.	**Learn the strategy: (this lesson video has one example that goes beyond 40)** https://classroom.thenational.academy/lessons/exploring-tens-and-ones-cru38d?step=2&activity=video		**Learn the strategy: (up to 6 minutes and 55 seconds)** https://classroom.thenational.academy/lessons/using-place-value-with-numbers-to-50-6muk4r?step=2&activity=video

3 Chapter 10: Numbers to 40					
Lesson 2: Writing Numbers to 40 (over 2 days)	**MNP Year 1 mid-year revision 1A assessment**	**MNP Year 1 mid-year revision 1A assessment**	**Exploration lesson:** representation of numbers using Dienes	**Lesson 3: Counting in Tens and Ones (over 2 days)** To understand that digits represent tens and ones; to represent numbers using Base 10 materials and numbers.	**Lesson 3: Counting in Tens and Ones (over 2 days)**
Learn the strategy: (up to 6 minutes and 55 seconds) https://classroom.thenational.academy/lessons/using-place-value-with-numbers-to-50-6muk4r?step=2&activity=video	**Complete workbook 1A mid-year revision: sections A and B, questions 1-31.**	**Complete workbook 4A mid-year revision: sections C and D, questions 32-45.**	**Learn the strategy: (watch the video to explore tens and ones)** https://www.khanacademy.org/math/cc-2nd-grade-math/cc-2nd-add-subtract-100/cc-2nd-add-100/v/understanding-place-value-when-adding-ones	**Learn the strategy:** https://www.khanacademy.org/math/cc-2nd-grade-math/cc-2nd-add-subtract-100/cc-2nd-add-100/v/understanding-place-value-while-adding-tens	

4 Chapter 10: Numbers to 40

Lesson 4: Comparing Numbers (over 2 days) To use place value to compare two or three numbers and determine which number is bigger/ smaller; to arrange three numbers in order of size.	**Lesson 4: Comparing Numbers (over 2 days)**	**Lesson 5: Finding How Much More (over 2 days)** To compare numbers using number bonds, 100-squares (deepening) and number lines to determine how much more/less.	**Lesson 5: Finding How Much More (over 2 days)**	**Lesson 6: Making Number Patterns (over 2 days)** To observe and use number patterns; to see number lines in conjunction with number squares in order to create visual proportionality.	**Lesson 6: Making Number Patterns (over 2 days)**
Learn the strategy: https://classroom.thenational.academy/lessons/comparing-and-ordering-numbers-within-50-part-1-60r30t?step=2&activity=video https://classroom.thenational.academy/lessons/comparing-and-ordering-numbers-within-50-part-2-70vkjc?step=1&activity=video		**Learn the strategy:** https://classroom.thenational.academy/lessons/comparing-sets-using-more-or-fewer-64w3gd?step=1&activity=video https://classroom.thenational.academy/lessons/comparing-numbers-65hk4c?step=2&activity=video		**Learn the strategy:** https://classroom.thenational.academy/lessons/describing-and-completing-number-patterns-6wuk4r?step=2&activity=video	

5 Chapter 11: Addition and Subtraction Word Problems

Lesson 1: Solving Word Problems (over 2 days) To decide whether addition or subtraction is the most appropriate operation; to use number bonds and visuals to solve word problems.	**Lesson 1: Solving Word Problems (over 2 days)**	**Lesson 2: Solving Word Problems (over 2 days)** To use concepts of how many more and how many fewer/less; to apply number bonds and the guess-and-check method to solve word problems.	**Lesson 2: Solving Word Problems (over 2 days)**	**Lesson 3: Solving Word Problems** To develop number sentences based on word problems; to improve the use of number bonds and one-to-one bar models.	**Lesson 4: Solving Word Problems** To use pictorial representations to help solve word problems; to choose the correct operation to solve a word problem.
Learn the strategy: https://classroom.thenational.academy/lessons/choosing-calculation-strategies-to-solve-calculations-cgu3jd?step=2&activity=video		**Learn the strategy:** https://classroom.thenational.academy/lessons/to-identify-complete-and-continue-number-patterns-adding-and-subtracting-1-or-2-ccr38e?step=2&activity=video **https://classroom.thenational.academy/lessons/solving-comparison-problems-part-1-crw34r?step=2&activity=video**		**Learn the strategy:** **https://classroom.thenational.academy/lessons/representing-information-as-a-bar-model-part-1-6cw6ar?step=1&activity=video**	**Learn the strategy:** https://classroom.thenational.academy/lessons/solving-comparison-problems-part-1-crw34r?step=2&activity=video

6 Chapter 11: Addition and Subtraction Word Problems

Lesson 5: Solving Word Problems To use visual representations and patterns to solve word problems; to develop precision in model drawing to recognise similarities and differences.	**Lesson 6: Solving Word Problems (over 2 days)** To apply addition and subtraction to multi-step word problems; to use number bonds to make 10 when adding.	**Lesson 6: Solving Word Problems (over 2 days)**	**Embed and review addition and subtraction word problems**	**Catch up time**
Learn the strategy: https://classroom.thenational.academy/lessons/solving-comparison-problems-part-2-75j3jr?step=1&activity=video	**Learn the strategy: Addition:** https://classroom.thenational.academy/lessons/to-use-mathematical-models-and-strategies-for-addition-crrpcr?step=2&activity=video **Subtraction:** https://classroom.thenational.academy/lessons/to-use-mathematical-models-and-strategies-for-subtraction-64tk4d?step=1&activity=video		**Complete the review of Chapter 11: Addition and subtraction word problems** Use the strategies we have learnt in this chapter. Go back to watch the videos if you are not sure.	**Complete any worksheets or lessons that are incomplete or that need additional time.**

Half term break

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Spring term 2 2020-21					
7 Recap lesson	**Chapter 12: Multiplication**				
Recap making equal groups practically	**Lesson 1: Making Equal Groups (over 2 days)** To identify equal groupings as the first step in multiplying; to reinforce the idea that the arrangement of objects does not have an impact on the number of objects.	**Lesson 1: Making Equal Groups (over 2 days)**	**Lesson 2: Adding Equal Groups (over 2 days)** To understand we can count groups of the same quantity more efficiently; to find multiple ways of counting groups of the same quantity.	**Lesson 2: Adding Equal Groups (over 2 days)**	**Lesson 3: Making Equal Rows (over 2 days)** To organise objects into equal rows in order to begin counting equal numbers efficiently.
Learn the strategy: Complete the online lesson https://classroom.thenational.academy/lessons/unequal-and-equal-groups-6tgpcc	**Learn the strategy:** https://classroom.thenational.academy/lessons/practise-working-with-equal-and-unequal-groups-6nh36c?step=1&activity=video	https://classroom.thenational.academy/lessons/redistributing-from-unequal-to-equal-groups-6rtk4d?step=1&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-recognise-and-add-equal-groups-cgr68d?activity=video&step=1		**Learn the strategy:** https://classroom.thenational.academy/lessons/to-explore-arrays-part-1-6mvkcd?step=1&activity=video
8 Chapter 12: Multiplication					
Lesson 3: Making Equal Rows (over 2 days)	**Lesson 4: Making Doubles (over 2 days)** To understand that doubling is creating an identical number to the one you started with; to understand that doubling is the same as saying two groups of the same amount.	**Lesson 4: Making Doubles (over 2 days)**	**Lesson 5: Solving Word Problems (over 2 days)** To solve word problems using equal groupings as the basis for multiplication.	**Lesson 5: Solving Word Problems (over 2 days)**	**Embed multiplication: adding equal groups**
Learn the strategy: (as previous lesson) https://classroom.thenational.academy/lessons/to-explore-arrays-part-1-6mvkcd?step=1&activity=video	**Learn the strategy:** https://classroom.thenational.academy/lessons/understanding-the-concept-of-double-6gw3ad?step=1&activity=video		**Learn the strategy: (from 4 minutes and 25 seconds)** https://classroom.thenational.academy/lessons/practice-using-the-sentence-there-are-groups-of-crwp6t?step=1&activity=video		**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/the-use-of-a-repeated-addition-expression-to-represent-equal-groups-c9jkce
9 'Holistic maths skills' – explaining to others		**Recap lesson**	**Recap lesson**	**Chapter 13: Division**	
Create a poster to show another child in year one their number bonds within 10 or 20. You could show your number bonds using a part-whole model or number bond diagram and with pictures of cubes or other shapes? You might want to use different colours to make each amount clear. Remember, number bonds to 10 mean all the pairs of numbers that make 10. 1 + 9 = 10, 2 + 8 = 10, 3 + 7 = 10, etc. Then show your number bonds to 20. What patterns can you see? How are the number bonds to 10 linked to the number bonds to 20? How is 2 + 8 the same as or different to 2 + 18? Explain your poster to a family member or carer. Remember to talk about any patterns or links between the number bonds that you can see.		**Making links with number bonds within 20**	**Recap sharing practically**	**Lesson 1: Grouping Equally (over 2 lessons)** To understand how to divide even numbers into equal groups using concrete materials; to determine how many groups will be created from sharing equally.	**Lesson 1: Grouping Equally (over 2 lessons)**
		Complete the online lesson: https://classroom.thenational.academy/lessons/using-number-bonds-within-20-for-addition-cgw3cd	**Complete the online lesson:** https://classroom.thenational.academy/lessons/exploring-sharing-objects-into-equal-groups-6gu34e	**Learn the strategy:** https://classroom.thenational.academy/lessons/consider-the-nature-of-equal-groups-in-more-detail-cdhkad?step=1&activity=video	

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10 Chapter 13: Division		Recap lesson		Chapter 14: Fractions	
Lesson 2: Sharing Equally (over 2 days) To divide even numbers equally into groups; to determine how many objects will be in each group in order to share equally.	**Lesson 2: Sharing Equally (over 2 days)**	**Embed division: grouping and sharing**	**Recap doubling and halving**	**Lesson 1: Making Halves (over 2 days)** To split an object (shape) into two equal parts; to identify shapes that have been split into two equal parts.	**Lesson 1: Making Halves (over 2 days)**
Learn the strategy: https://classroom.thenational.academy/lessons/to-share-a-total-equally-between-a-set-number-of-groups-6cu3cd?step=2&activity=video		**Learn the strategy: Complete the online lesson** https://classroom.thenational.academy/lessons/to-share-a-total-equally-and-find-the-number-of-groups-part-2-61jp8r	**Learn the strategy: Reminder video for halves and doubles:** https://classroom.thenational.academy/lessons/understanding-the-concept-of-half-and-double-6ru66r?step=1&activity=video **Complete the online lesson:** https://classroom.thenational.academy/lessons/to-find-double-and-half-within-20-chhk8d?from_query=doubles+and+halving	**Learn the strategy:** https://classroom.thenational.academy/lessons/to-identify-one-half-of-a-shape-60up2c?step=1&activity=video	

11 Chapter 14: Fractions					
Lesson 2: Making Quarters (over 2 days) To split an object (shape) into four equal parts; to identify shapes that have been split into four equal parts.	**Lesson 2: Making Quarters (over 2 days)**	**Lesson 3: Sharing and Grouping (over 3 days)** To share and group objects into halves and quarters; to determine half of a number and a quarter of a number.	**Lesson 3: Sharing and Grouping (over 3 days)**	**Lesson 3: Sharing and Grouping (over 3 days)**	**Embed fractions: halves and quarter of quantities**
Learn the strategy: https://classroom.thenational.academy/lessons/to-find-one-quarter-of-a-shape-c8r66c?step=2&activity=video		**Learn the strategy: Half amounts:** https://classroom.thenational.academy/lessons/to-find-half-of-a-quantity-6nhpct?step=2&activity=video **Quarter amounts:** https://classroom.thenational.academy/lessons/to-find-one-quarter-of-a-quantity-6xjkad?step=2&activity=video	**Learn the strategy: Half amounts:** https://classroom.thenational.academy/lessons/to-find-half-of-a-quantity-6nhpct?step=2&activity=video **Quarter amounts:** https://classroom.thenational.academy/lessons/to-find-one-quarter-of-a-quantity-6xjkad?step=2&activity=video		**Learn the strategy: Complete the online lesson:** https://classroom.thenational.academy/lessons/to-develop-understanding-of-halves-and-quarters-of-quantities-ccup4r

12 Lessons to revise and consolidate			Easter Break
Recap addition within 20	**Recap addition**	**Recap subtraction within 20**	
Complete the online lesson: https://classroom.thenational.academy/lessons/to-use-the-make-ten-strategy-to-add-two-1-digit-numbers-part-1-70r62e	**Complete the online lesson:** https://classroom.thenational.academy/lessons/to-use-the-make-ten-strategy-to-add-two-1-digit-numbers-part-2-60rk4t	**Complete the online lessons:** https://classroom.thenational.academy/lessons/to-use-the-make-ten-strategy-to-subtract-a-1-digit-number-from-a-teen-number-part-1-74v30d **And:** https://classroom.thenational.academy/lessons/to-use-the-make-ten-strategy-to-subtract-a-1-digit-number-from-a-teen-number-part-2-cmt38t	