Earth Works   Medium Term Overview Spring 2 2021

Week 1
Fractions: Fractions and Whole Numbers; Counting in Fractions

Year 3	Year 4
Introducing Fractions *Unit and non-unit fractions* **Fractions and Whole Numbers** *Making the whole* **Fractions on a Number Line** *Fractions on a number line* **Problem Solving and Reasoning**: *application and consolidation*	**Fractions** *What is a fraction?* **Fractions and Whole Numbers** *Fractions greater than 1* **Fractions on a Number Line** *Count in fractions* **Problem Solving and Reasoning**: *application and consolidation*

Week 2
Fractions: Finding Equivalent Fractions; Comparing Fractions

Year 3	Year 4
Equivalent Fractions *Equivalent fractions 1,2,3* **Comparing and Ordering Fractions** *Compare fractions* *Order fractions* **Problem Solving and Reasoning**: *application and consolidation*	**Equivalent Fractions** *Equivalent fractions 1,2* **Comparing and Ordering Fractions** **Problem Solving and Reasoning**: *application and consolidation*

Week 3 Number:
Fractions: Finding Fractions of an Amount

Year 3	Year 4
Finding Fractions of an Amount *Fractions of an amount/set of objects 1,2,3* **Problem Solving and Reasoning**: *application and consolidation Key Skills Assessments*	**Finding Fractions of an Amount** *Fractions of a quantity* *Calculate quantities* **Problem Solving and Reasoning**: *application and consolidation Key Skills Assessments*

Skills focus: Year 3: 2x, 5x, 10x, 3x, 4x, 8x tables facts; **Year 4**: As Year 3 plus: 6x, 7x, 9x, 11x, 12x tables facts.

Week 4 Number:
Fractions: Adding and Subtracting Fractions

Year 3	Year 4
Adding Fractions *Add fractions* **Subtracting Fractions** *Subtract fractions* **Problem Solving and Reasoning**: *calculating with fractions*	**Adding Fractions** *Add 2 or more fractions* **Subtracting Fractions** *Subtract 2 fractions* *Subtract from whole amounts* **Problem Solving and Reasoning**: *calculating with fractions*

Skills focus: Year 3/4: Number fact families: multiplication and division; Using the inverse to solve missing number problems; Dividing and multiplying by 10, by 100; Count in multiples of 2, 5, 10, 100, 3, 4, 8, 50, 25.

Week 5:
Fractions: Tenths and Hundredths

Tenths and Hundredths *Tenths* *Count in tenths* **Problem Solving and Reasoning**: *application and consolidation* *End of term assessments*	**Tenths and Hundredths** *Tenths and hundredths* **Problem Solving and Reasoning**: *application and consolidation* *End of term assessments*

Skills focus: Year 3 and 4: Mental addition and subtraction: Fluency in mental addition and subtraction facts within and bridging 10; Column addition and subtraction: **Year 3:** 3 digits; **Year 4:** 4 digits.

Focus for Skills Sessions (based on DfE Ready to Progress Criteria for Year 2/3/4)

Ready to Progress from Year 2 to 3	Ready to Progress from Year 3 to 4	Ready to Progress from Year 4 to 5
<td colspan="3" align="center">**Place Value**</td>		
Recognise place value of each digit in 2 digit numbers and partition numbers	Recognise place value of each digit in 3 digit numbers and partition numbers	Recognise place value of each digit in 4 digit numbers and partition numbers
Finding 10 more/10 less than a 2 digit number	Finding 10/100 more or less than a 3 digit number	Finding 10/100/1000 more or less than a 3 digit number
		Rounding to 10, 100, 1000
	Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts.	Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts.
<td colspan="3" align="center">**Addition and Subtraction**</td>		
Secure fluency in addition and subtraction facts within 10; Add and subtract bridging 10	Secure fluency in addition and subtraction facts bridging 10	
Automatically recall addition and subtraction facts within 10, and across 10; number bonds to numbers to 10; to 20.	Complements to 100 e.g. 46 + ? = 100	
Add and subtract 1s or 10s to/from a 2 digit number	Add and subtract 1s or 10s to/from a 3 digit number	Add and subtract 1s, 10s or 100s, 1000s to/from a 4 digit number
Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more…?".	Add and subtract up to three-digit numbers using columnar methods.	Add and subtract up to four-digit numbers using columnar methods.

	Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure. Understand and use the commutative property of addition and understand the related property for subtraction. Number fact families: addition and subtraction e.g. 2 + 3 = 5; 5 – 3 = 2 etc.	
	Multiplication and Division	
Recognise multiplication and division facts for 2x, 5x and 10x tables	Recognise multiplication and division facts for 2x, 5x, 10x and 3x, 4x, 8x tables	Recall multiplication and division facts up to 12 x 12 and recognise products in multiplication tables as multiples of the corresponding number.
Count in multiples of 2, 5, 10, 100	Count in multiples of 2, 5, 10, 100, 3, 4, 8, 50	Count in multiples of 25
	Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).	Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100)
Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.	Apply known multiplication and division facts to solve contextual problems with different structures, including quotative and partitive division.	Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size.
Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotative division).	Number fact families: multiplication and division e.g. 2 x 3 = 6; 6 ÷ 3 = 2	Manipulate multiplication and division equations and understand and apply the commutative property of multiplication.
		Understand and apply the distributive property of multiplication.