Earth Works   Medium Term Overview Summer 1 2021

Week 1
Multiplication and Division Consolidation, based on Gaps Assessment

Year 3	Year 4
Times tables: building fluency; scaling by 10/100 Manipulating times tables facts: number fact families, missing number and word problems using times tables facts Written method for columnar multiplication **Problem Solving and Reasoning:** *application and consolidation*	Short division Multiplication and division written method practise and problem solving. **Problem Solving and Reasoning:** *application and consolidation*

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 2
Fractions: Adding and Subtracting Fractions; Tenths and Hundredths

Year 3	Year 4
Adding Fractions Add fractions **Subtracting Fractions** Subtract fractions **Tenths and Hundredths** Tenths Count in tenths **Problem Solving and Reasoning:** *application and consolidation*	**Adding Fractions** Add 2 or more fractions **Subtracting Fractions** Subtract 2 fractions Subtract from whole amounts **Tenths and Hundredths** Tenths and hundredths **Problem Solving and Reasoning:** *application and consolidation*

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 3
Decimals and Money: Decimals

Year 3	Year 4
Decimals Make a whole Compare decimals Order decimals **Problem Solving and Reasoning:** *application and consolidation*	**Decimals** Write decimals Compare and order decimals Round decimals Halves and Quarters **Problem Solving and Reasoning:** *application and consolidation, including problems with money.*

Skills focus: Year 3/4: 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 4 Number:
Fractions: Adding and Subtracting Fractions

Year 3	Year 4
Adding Fractions Add fractions **Subtracting Fractions** Subtract fractions	**Adding Fractions** Add 2 or more fractions **Subtracting Fractions** Subtract 2 fractions

Problem Solving and Reasoning: *calculating with fractions*	Subtract from whole amounts **Problem Solving and Reasoning:** *calculating with fractions*

Skills focus: Year 3/4: 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.

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 3/4: Find unit fractions of quantities using known division facts; **Year 3:** Add and subtract fractions with the same denominator, within 1. **Year 4:** Convert mixed numbers to improper fractions and vice versa; Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers.

Week 6: Measurement: Time: Digital Time and Durations

Digital Time Using am and pm 24-hour clock **Finding and Comparing Durations** Finding durations Comparing durations Start and end times	**Digital Time** Analogue to digital – 12-hour clock Analogue to digital – 24-hour clock **Finding and Comparing Durations** *Reasoning and problem solving application and consolidation.*

Skills focus: Year 3/4: Telling the time (analogue time)

Week 7: Measurement: Time: Measuring in Seconds; Assessment

Measuring time in seconds End of Unit Decimals and Time assessments	Revision and consolidation of decimals and time. **Problem Solving and Reasoning:** *application and consolidation*

Skills focus: To be decided, based on AfL

Catch-up Skills Focus (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
Place Value		
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.
Addition and Subtraction		
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	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.

missing factor, and to division equations (quotative division).		
		Understand and apply the distributive property of multiplication.
Fractions		
	Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts.	
	Find unit fractions of quantities using known division facts (multiplication tables fluency).	
	Reason about the location of any fraction within 1 in the linear number system.	Reason about the location of mixed numbers in the linear number system.
		Convert mixed numbers to improper fractions and vice versa.
	Add and subtract fractions with the same denominator, within 1.	Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers.