ACP Learning Outline - Mathematics

Unit 3: Ratio and Proportion		
Learning Aim (WALT)	**Activities**	**Learning Outcome (WILF)**
Sharing equally 1	-Set up 4 operation sums like this **4 + 5 = __ + 2**. Get the student to identify the missing value to make both sides equal.	• Understand and use the = sign (E1) • Recognise both sides of equals sign should have the same total (E2) • Identify that ratio with same numbers is sharing equally (E3)
Identifying simple fractions and percentages	-10 Ticks (L3-4 pages 3-5, 9-11, 14C-27, 29) -Home Learning year 1, year2 fractions booklet -Home learning year 3 (10ths) -MyMaths (number) – Fractions (simple fractions, more fractions) -MyMaths number – percentages (modelling fractions and percentages; modelling percentages)	• Identify or show one half of a quantity up to 20 (E1) • Identify or show one third or one quarter of a quantity up to 24 (E2) • Identify unit fractions to one tenth (E3) • Identify simple percentages, 10%, 25%, 50%, 75% (L1)
Understanding Equivalence	-10 Ticks (L3-4 pages 6-8, 12-14B, 28, 30-32) -10 Ticks (L5-2 pages 9-11) -Home Learning year 3 fractions (equivalent, comparing) -Home Learning year 5 fractions (equivalent) -MyMaths (number) – fractions (modelling equivalent, comparing, simple equivalent, comparing mixed and improper) -MyMaths (number) – percentages (comparing, FDP1, FDP2)	• Recognise equivalence of ½ and 2/4 (E2) • Recognise and identify equivalent fractions (E3) • Compare common fractions and percentages (L1) • Simplify simple ratios (L1)
Addition and Subtraction of Fractions	-10 Ticks (L4-4 pages 9-10) -Home Learning year 3 fractions (adding fractions, fraction problems) -Home Learning year 5 fractions (adding, subtracting) -MyMaths (number) – fractions (all 4 operations)	• Use diagrams to identify fractions of shapes (E2) • Add fractions with same denominator (E3) • Subtract fractions with same denominator (E3) • Calculate solutions using fractions (L1) • Calculate solutions using mixed numbers (L1)

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Sharing in Multiples Share in simple ratios	-10 Ticks (L3-2 pages 34-38) -10 ticks (L4-2 pages 26-30) -MyMaths (Number) – ratio & proportion (modelling, introduction, ratio dividing 1)	• Identify multiples of 2,5, 10 (E2) • Work out amounts of 5, 8 or 10 times the size of a given amount (E3) • Share amounts using simple ratio (L1)
Sharing using fractions of amounts Sharing percentages of amounts	-10 Ticks (L4-4 pages 12-18) -10 Ticks (L5-2 pages 3-6, -MyMaths (number) – fractions (fractions of amounts) -MyMaths (number) – percentages (percentages of amounts 1,2,3,4; comparing quantities; percentage increase & decrease)	• Work out half of an even number up to 20 (E1) • Identify fractions to make a total (E2) • Work out one third or one quarter of a number up to 24 (E2) • Identify any number of thirds, quarters, fifths or tenths of a quantity (E3) • Work out unit fractions to 1/10 of a value to 100 (E3) • Calculate percentages or fractions of amounts (L1) • Calculate percentage increase and decrease (L1)
Share using ratio	-MyMaths (number) – ratio & proportion; proportion; ratio dividing 2; scale 7 ratio problems; unitary method) -10Ticks – L5-2 pages 39-42 : L6-4 pages 3-16	• Solve problems involving simple proportions (E2) • Divide amounts unit simple ratios (E3) • Share using multiple ratios (L1) • Use ratio to solve scale problems (L1)

Progress Check	*Reviewing progress activities – complete the appropriate tasks below* - mark and record score – gap analysis for topics (RAG) ready for when we return and review the learning area in subsequent years.
	
	1) **GCSE 1-2 & Entry Level - Ratio** – complete assignment paper A -
	2) **GCSE 3-5 & Functional Skills**
	   a) Basic percentages f) Ordering FDP
	   b) Calculating with percentages g) Fraction calculations – grade 4
	   c) Basic Fractions h) Ingredients proportion – grade 4
	   d) Ratio and proportion i) Ratio – grade 4
	   e) Fractions, Decimals, Percentages j) Percentages – grade 5	