

Plan: Abacus Year 5 **Term:** Summer 1 **School Name:** Seaton Sluice Middle School

Wk	Weekly Summary	Strands	Objectives
21	Add mentally 2-place decimal numbers in the context of money using rounding; add several small amounts of money using mental methods; mentally subtract amounts of money including giving change; calculate the difference between two amounts using counting up; solve word problems, including 2-step problems, choosing an appropriate method	Mental addition and subtraction (MAS)	MAS.68 Use place value to add near integers including amounts of money MAS.65 Use mental strategies to add amounts of money with 2 decimal places MAS.66 Use number facts to add several amounts of money MAS.67 Use counting up strategies to quickly calculate change MAS.69 Use place value to subtract near integers including amounts of money
		Decimals, percentages and their equivalence to fractions (DPE)	DPE.64 Round 1- and 2-place decimals up and down to the nearest whole number
		Problem solving, reasoning and algebra (PRA)	PRA.59 Solve addition and subtraction two-step problems in contexts PRA.66 Solve addition and subtraction multi-step problems, deciding which operations and methods to use and why
22	Multiply fractions less than 1 by whole numbers, convert improper fractions to whole numbers; use short multiplication to multiply 3-digit and 4-digit numbers by 1-digit numbers; use long multiplication to multiply 2-digit and 3-digit numbers by teens numbers	Fractions, ratio and proportion (FRP)	FRP.64 Convert mixed numbers to improper fractions and vice versa FRP.65 Multiply fractions by whole numbers FRP.66 Use the grid method to multiply mixed numbers by integers
		Problem solving, reasoning and algebra (PRA)	PRA.70 Identify patterns, devise and test rules and use them to make predictions
		Written multiplication and division (WMD)	WMD.63 Use short multiplication to multiply 3-digit numbers by 1-digit numbers WMD.64 Use short multiplication to multiply 4-digit numbers by 1-digit numbers WMD.70 Use long multiplication to multiply 2-digit and 3-digit numbers by 2-digit numbers (friendly numbers) WMD.65 Begin to use long multiplication to multiply 2-digit and 3-digit numbers by teens numbers
23	Read, write and compare decimals to three decimal places, understanding that the third decimal place represents	Decimals, percentages and their equivalence to fractions (DPE)	DPE.68 Match 1-, 2- and 3-place decimals to 1/10s, 1/100s and 1/1000s, using a place value grid DPE.70 Read, write and order 3-place decimals using a number line DPE.72 Order and compare 3-place decimal numbers and write a number in between DPE.69 Divide numbers by 10, 100 and 1000 to get answers with 3 decimal places, using a place value grid DPE.76 Multiply and divide by 10, 100 and 1000 giving answers up to 3 decimal places

	thousandths; multiply and divide numbers by 10, 100 and 1000 using 3-place decimal numbers in the calculations; place 2-place decimals on a number line and round them to the nearest tenth and whole number; read, write, order and compare 3-place decimal numbers; understand and use negative numbers in the context of temperature		<p>DPE.64 Round 1- and 2-place decimals up and down to the nearest whole number</p> <p>DPE.66 Round 2-place decimals up or down to the nearest tenth</p>
		Problem solving, reasoning and algebra (PRA)	<p>PRA.74 Solve problems involving numbers with up to 3 decimal places</p> <p>PRA.68 Solve problems involving addition, subtraction, multiplication and division and a combination of these</p>
		Number and place value (NPV)	<p>NPV.55 Locate negative numbers on a number line and relate to temperature</p> <p>NPV.56 Find numbers more or less than a given negative number and relate to temperature</p>
24	Read and mark co-ordinates in the first two quadrants; draw simple polygons using co-ordinates; translate simple polygons by adding to and subtracting from the co-ordinates; reflect simple shapes in the y axis or in a line, noting the effect on the co-ordinates; translate simple shapes and note what happens to the co-ordinates; draw regular and irregular 2D shapes using given dimensions and angles; use the properties of 2D shapes, including rectangles, to derive related facts; identify 3D shapes from 2D representations; create 3D shapes using 2D nets and draw 3D	Geometry: position and direction (GPD)	<p>GPD.55 Describe positions on a 2-dimensional grid as co-ordinates (1st quadrant)</p> <p>GPD.57 Plot points and draw sides to complete a polygon on a co-ordinate grid (1st quadrant)</p> <p>GPD.66 Identify and describe the position of a shape on a co-ordinate grid following a translation</p> <p>GPD.67 Identify and describe the position of a shape on a co-ordinate grid following a reflection</p> <p>GPD.71 Describe positions on a full co-ordinate grid</p> <p>GPD.72 Draw and translate simple shapes; reflect shapes in the axes</p>
		Problem solving, reasoning and algebra (PRA)	<p>PRA.65 Use mathematical reasoning to explain findings, patterns and relationships</p>
		Geometry: properties of shapes (GPS)	<p>GPS.67 Draw and construct 2D shapes with given dimensions and angles</p> <p>GPS.71 Know and use the properties of a square and rectangle and deduce related facts</p> <p>GPS.38 Make cuboids, cubes, tetrahedra and pyramids from nets</p> <p>GPS.63 Identify cubes and cuboids from 2D representations</p> <p>GPS.69 Identify 3D shapes from 2D representations</p>

	shapes		
25	Add 5-digit numbers using written column addition; subtract 5-digit numbers using written method (decomposition); check answers to subtractions using written column addition; solve subtractions of 4- and 5-digit numbers using written column subtraction or number line counting up	Written addition and subtraction (WAS)	<p>WAS.65 Use compact column addition to add two or three 5-digit numbers</p> <p>WAS.68 Use column addition to add several numbers with up to 5-digits</p> <p>WAS.67 Use column subtraction to subtract 5-digit from 5-digit numbers, where there are not more than two 0s in the larger number</p> <p>WAS.70 Choose an appropriate written method to solve subtraction problems</p>
		Problem solving, reasoning and algebra (PRA)	<p>PRA.65 Use mathematical reasoning to explain findings, patterns and relationships</p> <p>PRA.68 Solve problems involving addition, subtraction, multiplication and division and a combination of these</p> <p>ASSESSMENTS – SUMMER HALF TERM TEST IN ARITHMETIC, PROBLEM SOLVING AND REASONING</p>