ST PHILOMENA'S PRIMARY SCHOOL
MATHS MEDIUM TERM PLANNING YEAR 4
2026 – 2027
AUTUMN TERM

AUTUMN 1				
	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 1	Step 1	Represent numbers to 1,000	I can represent numbers to 1,000.	Know how place value determines the value and position of digits in a number.
	Step 2	Partition numbers to 1,000	I can partition numbers to 1,000.	Know how place value determines the value and position of digits in a number.
	Step 3	Number line to 1,000	I can number line to 1,000.	Know how place value determines the value and position of digits in a number.
	Step 4	Thousands	I can thousands.	Know how place value determines the value and position of digits in a number.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Count in multiples of 6, 7, 9, 25 and 1,000; find 1,000 more or less; recognise place value in 4-digit numbers; order, compare and round numbers; read Roman numerals to 100.			

AUTUMN 1				
	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 2	Step 6	Partition numbers to 10,000	I can partition numbers to 10,000.	Know how place value determines the value and position of digits in a number.
	Step 7	Flexible partitioning of numbers to 10,000	I can flexible partitioning of numbers to 10,000.	Know how place value determines the value and position of digits in a number.
	Step 8	Find 1, 10, 100, 1,000 more or less	I can find 1, 10, 100, 1,000 more or less.	Know the mathematical relationship represented in this step.
	Step 9	Number line to 10,000	I can number line to 10,000.	Know how place value determines the value and position of digits in a number.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Count in multiples of 6, 7, 9, 25 and 1,000; find 1,000 more or less; recognise place value in 4-digit numbers; order, compare and round numbers; read Roman numerals to 100.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 3	Step 10	Estimate on a number line to 10,000 - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 11	Compare numbers to 10,000	I can compare numbers to 10,000.	Know how place value determines the value and position of digits in a number.
	Step 11	Compare numbers to 10,000 - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 12	Order numbers to 10,000	I can order numbers to 10,000.	Know how place value determines the value and position of digits in a number.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Count in multiples of 6, 7, 9, 25 and 1,000; find 1,000 more or less; recognise place value in 4-digit numbers; order, compare and round numbers; read Roman numerals to 100.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 4	Step 13	Roman numerals	I can roman numerals.	Know how place value determines the value and position of digits in a number.
	Step 14	Round to the nearest 10	I can round numbers accurately.	Know that rounding identifies the nearest multiple of 10, 100 or 1,000.
	Step 14	Round to the nearest 10 - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 15	Round to the nearest 100	I can round numbers accurately.	Know that rounding identifies the nearest multiple of 10, 100 or 1,000.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Count in multiples of 6, 7, 9, 25 and 1,000; find 1,000 more or less; recognise place value in 4-digit numbers; order, compare and round numbers; read Roman numerals to 100.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 5	Step 16	Round to the nearest 1,000	I can round numbers accurately.	Know that rounding identifies the nearest multiple of 10, 100 or 1,000.
	Step 16	Round to the nearest 1,000 - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 17	Round to the nearest 10, 100 or 1,000	I can round numbers accurately.	Know that rounding identifies the nearest multiple of 10, 100 or 1,000.
	Step 17	Round to the nearest 10, 100 or 1,000 - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Count in multiples of 6, 7, 9, 25 and 1,000; find 1,000 more or less; recognise place value in 4-digit numbers; order, compare and round numbers; read Roman numerals to 100.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 6	Step 2	Add up to two 4-digit numbers – no exchange	I can add up to two 4-digit numbers – no exchange.	Know how place value, estimation and inverse operations support accurate calculation.
	Step 3	Add two 4-digit numbers – one exchange	I can add two 4-digit numbers – one exchange.	Know how place value, estimation and inverse operations support accurate calculation.
	Step 4	Add two 4-digit numbers – more than one exchange	I can add two 4-digit numbers – more than one exchange.	Know how place value, estimation and inverse operations support accurate calculation.
	Step 5	Subtract two 4-digit numbers – no exchange	I can subtract two 4-digit numbers – no exchange.	Know how place value, estimation and inverse operations support accurate calculation.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Add and subtract numbers with up to 4 digits using formal written methods; estimate and use inverse operations to check answers.			

ST PHILOMENA'S PRIMARY SCHOOL
MATHS MEDIUM TERM PLANNING YEAR 4
2026 – 2027
AUTUMN 2

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 7	**Step 7**	**Subtract two 4-digit numbers – more than one exchange**	**I can subtract two 4-digit numbers – more than one exchange.**	**Know how place value, estimation and inverse operations support accurate calculation.**
	Step 8	**Efficient subtraction**	**I can efficient subtraction.**	**Know how place value, estimation and inverse operations support accurate calculation.**
	Step 8	**Efficient subtraction - application and reasoning**	**I can apply this White Rose step independently and explain my reasoning.**	**Know how to select an efficient method, justify choices and check accuracy.**
	Step 9	**Estimate answers**	**I can estimate answers.**	**Know how place value, estimation and inverse operations support accurate calculation.**
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	**Add and subtract numbers with up to 4 digits using formal written methods; estimate and use inverse operations to check answers.**			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 8	**Step 10**	**Checking strategies**	**I can checking strategies.**	**Know how place value, estimation and inverse operations support accurate calculation.**
	Step 1	**What is area?**	**I can what is area?.**	**Know that area is the amount of space covered by a 2-D shape and can be measured in squares.**
	Step 1	**What is area? - application and reasoning**	**I can apply this White Rose step independently and explain my reasoning.**	**Know how to select an efficient method, justify choices and check accuracy.**
	Step 2	**Count squares**	**I can count squares.**	**Know that area is the amount of space covered by a 2-D shape and can be measured in squares.**
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	**Add and subtract numbers with up to 4 digits using formal written methods; estimate and use inverse operations to check answers.**			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 9	**Step 4**	**Compare areas**	**I can compare areas.**	**Know that area is the amount of space covered by a 2-D shape and can be measured in squares.**
	Step 4	**Compare areas - application and reasoning**	**I can apply this White Rose step independently and explain my reasoning.**	**Know how to select an efficient method, justify choices and check accuracy.**
	Step 1	**Multiples of 3**	**I can multiples of 3.**	**Know multiplication and division are inverse operations and can be supported by known facts.**
	Step 2	**Multiply and divide by 6**	**I can multiply and divide by 6.**	**Know multiplication and division are inverse operations and can be supported by known facts.**
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	**Find the area of rectilinear shapes by counting squares.**			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 10	Step 3	6 times-table and division facts	I can 6 times-table and division facts.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 3	6 times-table and division facts - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 4	Multiply and divide by 9	I can multiply and divide by 9.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 4	Multiply and divide by 9 - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recall multiplication and division facts for multiplication tables up to 12 × 12; use place value and known facts to multiply and divide mentally.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 11	Step 5	9 times-table and division facts - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 6	The 3, 6 and 9 times-tables	I can the 3, 6 and 9 times-tables.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 7	Multiply and divide by 7	I can multiply and divide by 7.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 7	Multiply and divide by 7 - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recall multiplication and division facts for multiplication tables up to 12 × 12; use place value and known facts to multiply and divide mentally.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 12	Step 9	11 times-table and division facts	I can 11 times-table and division facts.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 10	12 times-table and division facts	I can 12 times-table and division facts.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 11	Multiply by 1 and 0	I can multiply by 1 and 0.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 12	Divide a number by 1 and itself	I can divide a number by 1 and itself.	Know multiplication and division are inverse operations and can be supported by known facts.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recall multiplication and division facts for multiplication tables up to 12 × 12; use place value and known facts to multiply and divide mentally.			

ST PHILOMENA'S PRIMARY SCHOOL
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2026 – 2027
SPRING TERM

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 1	Step 1	Factor pairs	I can factor pairs.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 2	Use factor pairs	I can use factor pairs.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 3	Multiply by 10	I can multiply by 10.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 3	Multiply by 10 - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise and use factor pairs and commutativity; multiply 2- and 3-digit numbers by a 1-digit number; solve multiplication and division problems.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 2	Step 4	Multiply by 100 - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 5	Divide by 10	I can divide by 10.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 5	Divide by 10 - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 6	Divide by 100	I can divide by 100.	Know multiplication and division are inverse operations and can be supported by known facts.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise and use factor pairs and commutativity; multiply 2- and 3-digit numbers by a 1-digit number; solve multiplication and division problems.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 3	Step 8	Informal written methods for multiplication	I can informal written methods for multiplication.	Know the mathematical relationship represented in this step.
	Step 9	Multiply a 2-digit number by a 1-digit number	I can multiply a 2-digit number by a 1-digit number.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 10	Multiply a 3-digit number by a 1-digit number	I can multiply a 3-digit number by a 1-digit number.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 11	Divide a 2-digit number by a 1-digit number (1)	I can divide a 2-digit number by a 1-digit number (1).	Know multiplication and division are inverse operations and can be supported by known facts.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise and use factor pairs and commutativity; multiply 2- and 3-digit numbers by a 1-digit number; solve multiplication and division problems.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 4	Step 13	Divide a 3-digit number by a 1-digit number	I can divide a 3-digit number by a 1-digit number.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 14	Correspondence problems	I can correspondence problems.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 14	Correspondence problems - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 15	Efficient multiplication	I can efficient multiplication.	Know the mathematical relationship represented in this step.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise and use factor pairs and commutativity; multiply 2- and 3-digit numbers by a 1-digit number; solve multiplication and division problems.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 5	Step 2	Equivalent lengths (kilometres and metres)	I can equivalent lengths (kilometres and metres).	Know that perimeter is the distance around a shape and length can be expressed in related metric units.
	Step 3	Perimeter on a grid	I can perimeter on a grid.	Know that perimeter is the distance around a shape and length can be expressed in related metric units.
	Step 4	Perimeter of a rectangle	I can perimeter of a rectangle.	Know that perimeter is the distance around a shape and length can be expressed in related metric units.
	Step 5	Perimeter of rectilinear shapes	I can perimeter of rectilinear shapes.	Know that perimeter is the distance around a shape and length can be expressed in related metric units.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Convert between different units of measure; measure and calculate the perimeter of rectilinear figures.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 6	Financial Education 1	Income and Employment	I can explain that people receive money in different ways, including through employment.	Know that income is money received and that employment is one way people can earn it.
	Financial Education 2	Spending Priorities	I can explain how needs, wants and priorities affect spending decisions.	Know that limited money means people sometimes need to prioritise what they spend.
	Financial Education 3	Borrowing and Repayment	I can explain why people may borrow money and that borrowed money usually has to be repaid.	Know that borrowing creates a responsibility to repay money and may involve additional costs.
	Financial Education 4	Online Financial Safety	I can explain how to protect money and financial information online.	Know that passwords, PINs and financial details must be kept secure and private.
	Financial Education 5	Budgeting and Saving	I can create a simple budget and explain how saving can support future goals.	Know that a budget helps plan income, spending and saving.
NC LINKS	Financial Education enrichment – income, spending priorities, borrowing and repayment, online financial safety, budgeting and saving.			

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	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 7	Step 7	Calculate perimeter of rectilinear shapes	I can calculate perimeter of rectilinear shapes.	Know that perimeter is the distance around a shape and length can be expressed in related metric units.
	Step 7	Calculate perimeter of rectilinear shapes - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 8	Perimeter of regular polygons	I can perimeter of regular polygons.	Know that perimeter is the distance around a shape and length can be expressed in related metric units.
	Step 9	Perimeter of polygons	I can perimeter of polygons.	Know that perimeter is the distance around a shape and length can be expressed in related metric units.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Convert between different units of measure; measure and calculate the perimeter of rectilinear figures.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 8	Step 2	Count beyond 1	I can count beyond 1.	Know the mathematical relationship represented in this step.
	Step 3	Partition a mixed number	I can partition a mixed number.	Know how place value determines the value and position of digits in a number.
	Step 4	Number lines with mixed numbers	I can number lines with mixed numbers.	Know how place value determines the value and position of digits in a number.
	Step 5	Compare and order mixed numbers	I can compare and order mixed numbers.	Know that fractions describe equal parts and can be represented in equivalent forms.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise equivalent fractions; count in hundredths; add and subtract fractions with the same denominator; solve fraction problems.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 9	Step 6	Understand improper fractions	I can understand improper fractions.	Know that fractions describe equal parts and can be represented in equivalent forms.
	Step 7	Convert mixed numbers to improper fractions	I can convert mixed numbers to improper fractions.	Know that fractions describe equal parts and can be represented in equivalent forms.
	Step 8	Convert improper fractions to mixed numbers	I can convert improper fractions to mixed numbers.	Know that fractions describe equal parts and can be represented in equivalent forms.
	Step 9	Equivalent fractions on a number line	I can equivalent fractions on a number line.	Know how place value determines the value and position of digits in a number.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise equivalent fractions; count in hundredths; add and subtract fractions with the same denominator; solve fraction problems.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 10	Step 11	Add two or more fractions	I can add two or more fractions.	Know how place value, estimation and inverse operations support accurate calculation.
	Step 12	Add fractions and mixed numbers	I can add fractions and mixed numbers.	Know how place value, estimation and inverse operations support accurate calculation.
	Step 13	Subtract two fractions	I can subtract two fractions.	Know how place value, estimation and inverse operations support accurate calculation.
	Step 14	Subtract from whole amounts	I can subtract from whole amounts.	Know how place value, estimation and inverse operations support accurate calculation.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise equivalent fractions; count in hundredths; add and subtract fractions with the same denominator; solve fraction problems.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 11	Step 1	Tenths as fractions	I can tenths as fractions.	Know that fractions describe equal parts and can be represented in equivalent forms.
	Step 2	Tenths as decimals	I can tenths as decimals.	Know that tenths and hundredths have place value and can be written as fractions or decimals.
	Step 3	Tenths on a place value chart	I can tenths on a place value chart.	Know that tenths and hundredths have place value and can be written as fractions or decimals.
	Step 4	Tenths on a number line	I can tenths on a number line.	Know how place value determines the value and position of digits in a number.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise and write decimal equivalents of tenths and hundredths; divide 1- or 2-digit numbers by 10 and 100.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 12	Step 6	Divide a 2-digit number by 10	I can divide a 2-digit number by 10.	Know multiplication and division are inverse operations and can be supported by known facts.
	Step 7	Hundredths as fractions	I can hundredths as fractions.	Know that fractions describe equal parts and can be represented in equivalent forms.
	Step 8	Hundredths as decimals	I can hundredths as decimals.	Know that tenths and hundredths have place value and can be written as fractions or decimals.
	Step 9	Hundredths on a place value chart	I can hundredths on a place value chart.	Know that tenths and hundredths have place value and can be written as fractions or decimals.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise and write decimal equivalents of tenths and hundredths; divide 1- or 2-digit numbers by 10 and 100.			

ST PHILOMENA'S PRIMARY SCHOOL
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SUMMER 1				
	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 1	Step 1	Make a whole with tenths	I can make a whole with tenths.	Know that fractions describe equal parts and can be represented in equivalent forms.
	Step 2	Make a whole with hundredths	I can make a whole with hundredths.	Know that fractions describe equal parts and can be represented in equivalent forms.
	Step 3	Partition decimals	I can partition decimals.	Know how place value determines the value and position of digits in a number.
	Step 3	Partition decimals - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise and write decimal equivalents; round decimals with 1 decimal place to the nearest whole number; compare numbers with the same number of decimal places.			

SUMMER 1				
	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 2	Step 4	Flexibly partition decimals - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 5	Compare decimals	I can compare decimals.	Know that tenths and hundredths have place value and can be written as fractions or decimals.
	Step 5	Compare decimals - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 6	Order decimals	I can order decimals.	Know that tenths and hundredths have place value and can be written as fractions or decimals.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise and write decimal equivalents; round decimals with 1 decimal place to the nearest whole number; compare numbers with the same number of decimal places.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 3	Step 7	Round to the nearest whole number	I can round numbers accurately.	Know that rounding identifies the nearest multiple of 10, 100 or 1,000.
	Step 7	Round to the nearest whole number - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 8	Halves and quarters as decimals	I can halves and quarters as decimals.	Know that tenths and hundredths have place value and can be written as fractions or decimals.
	Step 8	Halves and quarters as decimals - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Recognise and write decimal equivalents; round decimals with 1 decimal place to the nearest whole number; compare numbers with the same number of decimal places.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 4	Step 1	Write money using decimals - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 2	Convert between pounds and pence	I can convert between pounds and pence.	Know that £1 = 100p and money can be represented and calculated using decimal notation.
	Step 3	Compare amounts of money	I can compare amounts of money.	Know that £1 = 100p and money can be represented and calculated using decimal notation.
	Step 3	Compare amounts of money - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Estimate, compare and calculate different measures, including money in pounds and pence; solve measure and money problems involving decimals.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 5	Step 4	Estimate with money - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 5	Calculate with money	I can calculate with money.	Know that £1 = 100p and money can be represented and calculated using decimal notation.
	Step 5	Calculate with money - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 6	Solve problems with money	I can solve problems with money.	Know that £1 = 100p and money can be represented and calculated using decimal notation.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Estimate, compare and calculate different measures, including money in pounds and pence; solve measure and money problems involving decimals.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 6	Step 1	Years, months, weeks and days	I can years, months, weeks and days.	Know the relationships between units of time and between analogue, 12-hour and 24-hour notation.
	Step 2	Hours, minutes and seconds	I can hours, minutes and seconds.	Know the relationships between units of time and between analogue, 12-hour and 24-hour notation.
	Step 3	Convert between analogue and digital times	I can convert between analogue and digital times.	Know the relationships between units of time and between analogue, 12-hour and 24-hour notation.
	Step 3	Convert between analogue and digital times - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Convert between units of time; read, write and convert time between analogue and digital 12- and 24-hour clocks.			

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	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 7	Step 5	Convert from the 24-hour clock	I can convert from the 24-hour clock.	Know the relationships between units of time and between analogue, 12-hour and 24-hour notation.
	Step 1	Understand angles as turns	I can understand angles as turns.	Know that shapes can be classified using properties including sides, angles and symmetry.
	Step 2	Identify angles	I can identify angles.	Know that shapes can be classified using properties including sides, angles and symmetry.
	Step 3	Compare and order angles	I can compare and order angles.	Know that shapes can be classified using properties including sides, angles and symmetry.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Convert between units of time; read, write and convert time between analogue and digital 12- and 24-hour clocks.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 8	Step 4	Triangles	I can triangles.	Know that shapes can be classified using properties including sides, angles and symmetry.
	Step 5	Quadrilaterals	I can quadrilaterals.	Know that shapes can be classified using properties including sides, angles and symmetry.
	Step 6	Polygons	I can polygons.	Know that shapes can be classified using properties including sides, angles and symmetry.
	Step 7	Lines of symmetry	I can lines of symmetry.	Know that shapes can be classified using properties including sides, angles and symmetry.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Compare and classify geometric shapes; identify acute and obtuse angles; identify lines of symmetry and complete symmetric figures.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 9	Step 8	Complete a symmetric figure	I can complete a symmetric figure.	Know the mathematical relationship represented in this step.
	Step 8	Complete a symmetric figure - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 1	Interpret charts	I can interpret charts.	Know that data can be represented and interpreted using charts and graphs.
	Step 1	Interpret charts - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Compare and classify geometric shapes; identify acute and obtuse angles; identify lines of symmetry and complete symmetric figures.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 10	Step 2	Comparison, sum and difference - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 3	Interpret line graphs	I can interpret line graphs.	Know that data can be represented and interpreted using charts and graphs.
	Step 3	Interpret line graphs - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 4	Draw line graphs	I can draw line graphs.	Know that data can be represented and interpreted using charts and graphs.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 11	Step 1	Describe position using coordinates	I can describe position using coordinates.	Know that coordinates describe position and translation moves a shape without changing it.
	Step 1	Describe position using coordinates - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 2	Plot coordinates	I can plot coordinates.	Know that coordinates describe position and translation moves a shape without changing it.
	Step 2	Plot coordinates - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Describe positions on a 2-D grid as coordinates; describe movements between positions as translations.			

	WHITE ROSE STEPS	WHITE ROSE CONTENT	LEARNING OBJECTIVES	KEY KNOWLEDGE
WEEK 12	Step 3	Draw 2-D shapes on a grid - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 4	Translate on a grid	I can translate on a grid.	Know that coordinates describe position and translation moves a shape without changing it.
	Step 4	Translate on a grid - application and reasoning	I can apply this White Rose step independently and explain my reasoning.	Know how to select an efficient method, justify choices and check accuracy.
	Step 5	Describe translation on a grid	I can describe translation on a grid.	Know the mathematical relationship represented in this step.
	Arithmetic	Weekly arithmetic fluency	I can recall and apply key number facts and calculation strategies accurately.	Know how to select and use efficient mental and written strategies, drawing on learning from this week and prior learning.
NC LINKS	Describe positions on a 2-D grid as coordinates; describe movements between positions as translations.			