

Lingfield Education Trust

Maths Medium-Term Plan: Year 5-6 (Year A)

Autumn Term

Place Value	Negative Numbers	Add, Subtract, Money	BODMAS & Circles	Assessment	Multiplication & Division
4 weeks	2 weeks	2 weeks	2 weeks	1 week	4 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps	<ul style="list-style-type: none"> Represent Numbers to 10,000,000 Partition numbers to 10,000,000 Value of digits to 10,000,000 Number lines to 10,000,000 Compare numbers to 10,000,000 Same PV Compare numbers to 10,000,000 Different PV Order numbers to 10,000,000 PS Lesson: place value to 10,000,000 (more than one possibility) Round 4-digit numbers to nearest 10, 100, 1000 Round to any given amount PS Lesson: rounding (multi-domain) <p style="color: #f4a460; margin-top: 10px;">Done as unit 3 after negative numbers...</p> <ul style="list-style-type: none"> Tenths as decimals and value of digits Partition numbers with tenths Compare numbers with tenths Order numbers with tenths Round numbers with tenths to nearest whole hundredths as decimals and value of digits Partition numbers with hundredths Compare numbers with hundredths Order numbers with hundredths Round numbers with hundredths to nearest tenth Round numbers with hundredths to nearest whole PS Lesson: decimals (visual) Assessment, Pause & Stretch 	<ul style="list-style-type: none"> Practical Lesson Counting through zero in ones Counting through zero in other multiples Comparing and ordering numbers including negative numbers Decreases through zero Increases through zero Differences involving negative numbers PS Lesson: negative numbers (real-life word) Assessment Pause & Stretch 	<ul style="list-style-type: none"> Mental Addition Strategies – Integers Mental Addition Strategies – Decimals including money Mental Subtraction Strategies – Integers Mental Subtraction Strategies – Decimals including money Written Addition– Integers Mental Addition– Decimals including money Mental Subtraction – Integers Written Subtraction – Decimals including money PS Lesson: addition & subtraction (real-life word / multi-step) Assessment Pause & Stretch PS Skills Lesson: trial & improvement 	<ul style="list-style-type: none"> Missing number equations (add and take mental methods) Balancing equations (add and take mental methods) Practice Lesson: column addition and subtraction Order of Operations Order of Operations Assessment Pause & Stretch 	<ul style="list-style-type: none"> Monday: arithmetic paper Tuesday: reasoning paper Wednesday: fluency checks Thursday: unpick arithmetic paper Friday: unpick reasoning paper 	<ul style="list-style-type: none"> 2 x 1 column into 3 x 1 into 4 x 1 with no regrouping 2 x 1 column into 3 x 1 into 4 x 1 with one regrouping 2 x 1 column into 3 x 1 into 4 x 1 with two regrouping 2 x 1 column into 3 x 1 into 4 x 1 with multiple regrouping PS Lesson: short multiplication (multi-step / real-life word) Long multiplication with no regroup Long multiplication with one regroup Long multiplication with two regroup Long multiplication with multiple regroup PS Lesson: long multiplication (multi-step / multi-domain) 2 x 1 into 3 x 1 into 4 x 1 with no remainder at all 2 x 1 into 3 x 1 into 4 x 1 with remainder at end 2 x 1 into 3 x 1 into 4 x 1 with one remainder within 2 x 1 into 3 x 1 into 4 x 1 with more than one remainder within PS Lesson: short division (work backwards) Building multiple strings (fact bank) Long division – no remainder – divisor smaller than first 2 digits of dividend Long division –remainder – divisor smaller than first 2 digits of dividend Long division – no remainder – divisor larger than first 2 digits of dividend PS Lesson: long multiplication (open-ended) Assessment Pause & Stretch PS Skills Lesson: systematic approach
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Lingfield Education Trust
Maths Medium-Term Plan: Year 5-6 (Year A)
 Spring Term

FDP	Assessment	Shape, Area, Perimeter & Volume
7 weeks	1 week	5 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps

- Common Factors
- Simplifying
- Common multiples
- Comparing & ordering fractions
- PS Lesson: common denominators (visual)
- Practical Lesson: equivalent fractions
- Fraction wall equivalent fractions
- Equivalent fractions through simplifying down
- Equivalent fractions through scaling up
- Multiply fraction by whole within whole including commutativity
- Multiply fraction by whole beyond whole including commutativity
- Multiply improper by whole and convert
- Multiply mixed by whole (no crossing whole)
- Multiply mixed by whole (crossing whole)
- Divide a fraction by integer (numerator-divisor match)
- Divide a fraction by integer
- PS Lesson: multiplying and dividing fractions (multi-step)
- Adding fractions with different denominators
- Adding mixed numbers with different denominators
- Subtracting fractions
- Subtracting mixed numbers
- PS Lesson: adding and subtracting fractions (real-life / multi-step)
- Fraction and decimal equivalence to tenths
- Fraction and decimal equivalence to hundredths
- common fraction decimal equivalence
- FD Equivalence Via Dividing
- Percentages of amounts multiples of 25%, 50%, 75%
- Percentages of amounts multiples of 10%
- Percentages of amounts multiples of 5%
- Percentages of amounts 1%
- Most efficient method for percentages
- PS Lesson: percentages of amounts (multi-step / multi-domain)
- Assessment
- Pause & Stretch
- PS Skills Lesson: working collaboratively

- Monday: arithmetic paper
- Tuesday: reasoning paper
- Wednesday: fluency checks
- Thursday: unpick arithmetic paper
- Friday: unpick reasoning paper

- Area & Perimeter Links
- Classify types of triangles
- Calculate the perimeter and area of triangles
- Calculate missing triangle angles
- Classify types of quadrilaterals
- Calculate the perimeter and area of quadrilaterals
- Calculate missing quadrilaterals angles
- Nets and 3D shapes
- Compound perimeter and area
- Regular perimeter and area
- Irregular perimeter and area
- Volume via cubes
- Volume via formula
- Practice Lesson: volume
- PS Lesson: shape (all possibilities)
- Assessment
- Pause & Stretch
- PS Skills Lesson: finding starting points

Lingfield Education Trust
Maths Medium-Term Plan: Year 5-6 (Year A – Year 6 Only)
 Summer Term

Revision & SATs	Financial & Economic Projects	Calculator Skills
6 weeks	3 weeks	2 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps

- Revision of arithmetic
- Revision of mental methods
- Choice of methods
- Reasoning and problem-solving practice

- White Rose Bakery: Ratio and proportion
- White Rose Bakery: Cost of ingredients
- White Rose Bakery: Best Value
- White Rose Bakery: Profit and loss
- White Rose Bakery: Packaging
- White Rose Bakery: Baking problems
- White Rose Bakery: Cooking Problems
- White Rose Tours: Choosing your destination
- White Rose Tours: Climate
- White Rose Tours: Locating your destination
- White Rose Tours: Conversions
- White Rose Tours: Choosing your flights
- White Rose Tours: Airport
- White Rose Tours: Choosing your accommodation
- White Rose Tours: Creating your budget
- White Rose Tours: Budget
- White Rose Tours: Time problems
- White Rose Futures: Exploring annual salaries
- White Rose Futures: Annual salary
- White Rose Futures: Exploring hourly rates
- White Rose Futures: Hourly rates
- White Rose Futures: Budgeting for your bills
- White Rose Futures: Bills
- White Rose Futures: Buying your dream home
- White Rose Futures: Mortgages
- White Rose Futures: Decorating your dream home

- Summer Sizzle (2024 Project)
- Re-Order (2024 Project)
- Three by Three (2024 Project)
- Fun with Fractions (2024 Project)
- A-Maze-Ment (2024 Project)
- Save the Bees
- An Odd Puzzle
- A game of Four Quarters
- Squaring Halves
- Seeing Double
- The Times Crossword or Cross Number
- Constant Function Challenges
- The Times Factor
- A-Maze Your Friends

Lingfield Education Trust
Maths Medium-Term Plan: Year 5-6 (Year A – Year 5 Only)
 Summer Term

Measuring Angles	Statistics	Assessment	Mass & Capacity	Summer Springboard
4 weeks	2 weeks	1 week	3 weeks	1 week

NC

Units cover objectives from both year groups – where necessary

Small Steps	Measuring Angles	Statistics	Assessment	Mass & Capacity	Summer Springboard
	<ul style="list-style-type: none"> Degrees and estimation Measure acute angles Measure acute angles in shapes Measure obtuse angles Measure obtuse angles in shapes Measure reflex angles Draw acute angles Draw obtuse angles Draw accurate 2D shapes Practice Lesson: measure and draw angles Calculate missing angles from right angles Calculate missing angles from straight lines Calculate missing angles from triangles angles Calculate missing angles from whole turns Calculate vertically opposite angles Practice Lesson: calculate missing angles PS Lesson: missing angles (investigations) Regular v irregular shapes Assessment, Pause & Stretch Pause & Stretch PS Skills Lesson: visualising 	<ul style="list-style-type: none"> Interpret tables Pictograms Bar Charts Line Charts The mean Interpret pie charts Interpret pie charts with fractions Create pie charts Timetables PS Lesson: timetables (open-ended) Assessment Pause & Stretch PS Skills Lesson: generalising & conjecturing 	<ul style="list-style-type: none"> Monday: arithmetic paper Tuesday: reasoning paper Wednesday: fluency checks Thursday: unpick arithmetic paper Friday: unpick reasoning paper 	<ul style="list-style-type: none"> Area & Perimeter Links Classify types of triangles Calculate the perimeter and area of triangles Calculate missing triangle angles Classify types of quadrilaterals Calculate the perimeter and area of quadrilaterals Calculate missing quadrilaterals angles Nets and 3D shapes Compound perimeter and area Regular perimeter and area Irregular perimeter and area Volume via cubes Volume via formula Practice Lesson: volume PS Lesson: shape (all possibilities) Assessment Pause & Stretch PS Skills Lesson: finding starting points 	<ul style="list-style-type: none"> Revisit Key NPVCF objectives before summer break

Lingfield Education Trust

Maths Medium-Term Plan: Year 5-6 (Year B)

Autumn Term

Place Value	Position & Direction	Add, Subtract, Money	BODMAS & Circles	Assessment	Multiplication & Division
4 weeks	2 weeks	2 weeks	2 weeks	1 week	4 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps	Place Value	Position & Direction	Add, Subtract, Money	BODMAS & Circles	Assessment	Multiplication & Division
<ul style="list-style-type: none"> Represent Numbers to 10,000,000 Partition numbers to 10,000,000 Value of digits to 10,000,000 Number lines to 10,000,000 Compare numbers to 10,000,000 Same PV Compare numbers to 10,000,000 Different PV Order numbers to 10,000,000 PS Lesson: place value to 10,000,000 (more than one possibility) Round 4-digit numbers to nearest 10, 100, 1000 Round to any given amount PS Lesson: rounding (multi-domain) <p style="margin-top: 10px;">Done as unit 3 after position & direction</p> <ul style="list-style-type: none"> Tenths as decimals and value of digits Partition numbers with tenths Compare numbers with tenths Order numbers with tenths Round numbers with tenths to nearest whole hundredths as decimals and value of digits Partition numbers with hundredths Compare numbers with hundredths Order numbers with hundredths Round numbers with hundredths to nearest tenth Round numbers with hundredths to nearest whole PS Lesson: decimals (visual) Assessment, Pause & Stretch 	<ul style="list-style-type: none"> Reading coordinates in all 4 quadrants Plotting coordinates in all 4 quadrants Complete shapes on grids Translations in all 4 quadrants Reflections in all 4 quadrants PS Lesson: coordinates (logic) Interpret graphs with negative numbers Construct graphs with negative numbers Assessment Pause & Stretch 	<ul style="list-style-type: none"> Mental Addition Strategies – Integers Mental Addition Strategies – Decimals including money Mental Subtraction Strategies – Integers Mental Subtraction Strategies – Decimals including money Written Addition– Integers Mental Addition– Decimals including money Mental Subtraction – Integers Written Subtraction – Decimals including money PS Lesson: addition & subtraction (real-life word / multi-step) Assessment Pause & Stretch PS Skills Lesson: trial & improvement 	<ul style="list-style-type: none"> Missing number equations (add and take mental methods) Balancing equations (add and take mental methods) Practice Lesson: column addition and subtraction Order of Operations Order of Operations Assessment Pause & Stretch 	<ul style="list-style-type: none"> Monday: arithmetic paper Tuesday: reasoning paper Wednesday: fluency checks Thursday: unpick arithmetic paper Friday: unpick reasoning paper 	<ul style="list-style-type: none"> 2 x 1 column into 3 x 1 into 4 x 1 with no regrouping 2 x 1 column into 3 x 1 into 4 x 1 with one regrouping 2 x 1 column into 3 x 1 into 4 x 1 with two regrouping 2 x 1 column into 3 x 1 into 4 x 1 with multiple regrouping PS Lesson: short multiplication (multi-step / real-life word) Long multiplication with no regroup Long multiplication with one regroup Long multiplication with two regroup Long multiplication with multiple regroup PS Lesson: long multiplication (multi-step / multi-domain) 2 x 1 into 3 x 1 into 4 x 1 with no remainder at all 2 x 1 into 3 x 1 into 4 x 1 with remainder at end 2 x 1 into 3 x 1 into 4 x 1 with one remainder within 2 x 1 into 3 x 1 into 4 x 1 with more than one remainder within PS Lesson: short division (work backwards) Building multiple strings (fact bank) Long division – no remainder – divisor smaller than first 2 digits of dividend Long division –remainder – divisor smaller than first 2 digits of dividend Long division – no remainder – divisor larger than first 2 digits of dividend PS Lesson: long multiplication (open-ended) Assessment Pause & Stretch PS Skills Lesson: systematic approach 	

Lingfield Education Trust
Maths Medium-Term Plan: Year 5-6 (Year B)
 Spring Term

FDP	Algebra	Assessment	Ratio
7 weeks	3 weeks	1 week	2 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps	<ul style="list-style-type: none"> • Common Factors • Simplifying • Common multiples • Comparing & ordering fractions • PS Lesson: common denominators (visual) • Practical Lesson: equivalent fractions • Fraction wall equivalent fractions • Equivalent fractions through simplifying down • Equivalent fractions through scaling up • Multiply fraction by whole within whole including commutativity • Multiply fraction by whole beyond whole including commutativity • Multiply improper by whole and convert • Multiply mixed by whole (no crossing whole) • Multiply mixed by whole (crossing whole) • Divide a fraction by integer (numerator-divisor match) • Divide a fraction by integer • PS Lesson: multiplying and dividing fractions (multi-step) • Adding fractions with different denominators • Adding mixed numbers with different denominators • Subtracting fractions • Subtracting mixed numbers • PS Lesson: adding and subtracting fractions (real-life / multi-step) • Fraction and decimal equivalence to tenths • Fraction and decimal equivalence to hundredths • common fraction decimal equivalence • FD Equivalence Via Dividing • Percentages of amounts multiples of 25%, 50%, 75% • Percentages of amounts multiples of 10% • Percentages of amounts multiples of 5% • Percentages of amounts 1% • Most efficient method for percentages • PS Lesson: percentages of amounts (multi-step / multi-domain) • Assessment • Pause & Stretch • PS Skills Lesson: working collaboratively 	<ul style="list-style-type: none"> • Sequences • Function Machines • Forming expressions • Algebraic expressions • 1-step equations • 2-step equations • Pairs of values • PS Lesson: algebra (rules & patterns) • Assessment • Pause & Stretch • PS Skills Lesson: finding starting points 	<ul style="list-style-type: none"> • Monday: arithmetic paper • Tuesday: reasoning paper • Wednesday: fluency checks • Thursday: unpick arithmetic paper • Friday: unpick reasoning paper 	<ul style="list-style-type: none"> • Practical Lesson: ratio with Numicon • Ratio language 1 • Ratio language 2 • Ratio problems • Scale Drawings • Scale Factor • Practice Lesson: ratio • PS Lesson: ratio (real-life word / multi-step) • Assessment • Pause & Stretch
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Lingfield Education Trust
Maths Medium-Term Plan: Year 5-6 (Year B – Year 6 Only)
 Summer Term

Revision & SATs	Financial & Economic Projects	Calculator Skills
6 weeks	3 weeks	2 weeks

NC

Units cover objectives from both year groups – where necessary

Small Steps

- Revision of arithmetic
- Revision of mental methods
- Choice of methods
- Reasoning and problem-solving practice

- White Rose Bakery: Ratio and proportion
- White Rose Bakery: Cost of ingredients
- White Rose Bakery: Best Value
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- White Rose Bakery: Packaging
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- White Rose Bakery: Cooking Problems
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- White Rose Tours: Climate
- White Rose Tours: Locating your destination
- White Rose Tours: Conversions
- White Rose Tours: Choosing your flights
- White Rose Tours: Airport
- White Rose Tours: Choosing your accommodation
- White Rose Tours: Creating your budget
- White Rose Tours: Budget
- White Rose Tours: Time problems
- White Rose Futures: Exploring annual salaries
- White Rose Futures: Annual salary
- White Rose Futures: Exploring hourly rates
- White Rose Futures: Hourly rates
- White Rose Futures: Budgeting for your bills
- White Rose Futures: Bills
- White Rose Futures: Buying your dream home
- White Rose Futures: Mortgages
- White Rose Futures: Decorating your dream home

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- Three by Three (2024 Project)
- Fun with Fractions (2024 Project)
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- Save the Bees
- An Odd Puzzle
- A game of Four Quarters
- Squaring Halves
- Seeing Double
- The Times Crossword or Cross Number
- Constant Function Challenges
- The Times Factor
- A-Maze Your Friends

Lingfield Education Trust
Maths Medium-Term Plan: Year 5-6 (Year B – Year 5 Only)
 Summer Term

Measuring Angles	Statistics	Assessment	Mass & Capacity	Summer Springboard
4 weeks	2 weeks	1 week	3 weeks	1 week

NC

Units cover objectives from both year groups – where necessary

Small Steps

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| <ul style="list-style-type: none"> • Degrees and estimation • Measure acute angles • Measure acute angles in shapes • Measure obtuse angles • Measure obtuse angles in shapes • Measure reflex angles • Draw acute angles • Draw obtuse angles • Draw accurate 2D shapes • Practice Lesson: measure and draw angles • Calculate missing angles from right angles • Calculate missing angles from straight lines • Calculate missing angles from triangles angles • Calculate missing angles from whole turns • Calculate vertically opposite angles • Practice Lesson: calculate missing angles • PS Lesson: missing angles (investigations) • Regular v irregular shapes • Assessment, Pause & Stretch • Pause & Stretch • PS Skills Lesson: visualising | <ul style="list-style-type: none"> • Interpret tables • Pictograms • Bar Charts • Line Charts • The mean • Interpret pie charts • Interpret pie charts with fractions • Create pie charts • Timetables • PS Lesson: timetables (open-ended) • Assessment • Pause & Stretch • PS Skills Lesson: generalising & conjecturing | <ul style="list-style-type: none"> • Monday: arithmetic paper • Tuesday: reasoning paper • Wednesday: fluency checks • Thursday: unpick arithmetic paper • Friday: unpick reasoning paper | <ul style="list-style-type: none"> • Area & Perimeter Links • Classify types of triangles • Calculate the perimeter and area of triangles • Calculate missing triangle angles • Classify types of quadrilaterals • Calculate the perimeter and area of quadrilaterals • Calculate missing quadrilaterals angles • Nets and 3D shapes • Compound perimeter and area • Regular perimeter and area • Irregular perimeter and area • Volume via cubes • Volume via formula • Practice Lesson: volume • PS Lesson: shape (all possibilities) • Assessment • Pause & Stretch • PS Skills Lesson: finding starting points | <ul style="list-style-type: none"> • Revisit Key NPVCF objectives before summer break |
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