

	Term 1: Sept –Dec Content	Term 2: Jan-April Content	Term 3: April - July Content
Year 8–Ms Gluchowska	<p>Year 8 are currently working on completing the KS2 curriculum and working towards passing their Pearson Edexcel Functional Skills Entry Level 2 exam.</p> <p><u>Number</u></p> <p>Place Value</p> <ul style="list-style-type: none"> E2.1 Count reliably up to 100 items E2.2 Read, write, order and compare numbers up to 200 E2.3 Recognise and sequence odd and even numbers up to 100 E2.4 Recognise and interpret the symbols +, –, ×, ÷ and = appropriately Represent numbers to 1,000 Partition numbers to 1,000 Number line to 1,000 Represent numbers to 10,000 Partition numbers to 10,000 Flexible partitioning of numbers to 10,000 Find 1, 10, 100, 1,000 more or less Number line to 10,000 Estimate on a number line to 10,000 Compare numbers to 10,000 Order numbers to 10,000 Roman numerals Round to the nearest 10 Round to the nearest 100 Round to the nearest 1,000 Round to the nearest 10, 100 or 1,000 E2.9 Approximate by rounding to the nearest 10, and use this rounded answer to check results <p>Addition & Subtraction</p> <ul style="list-style-type: none"> E2.5 Add and subtract two-digit numbers Add and subtract 1s, 10s, 100s and 1,000s Add up to two 4-digit numbers - no exchange Add two 4-digit numbers - one exchange Add two 4-digit numbers - more than one exchange 	<p><u>Multiplication & Division</u></p> <ul style="list-style-type: none"> Factor pairs Use factor pairs Multiply by 10 Multiply by 100 Divide by 10 Divide by 100 Related facts – multiplication and division Informal written methods for multiplication Multiply a 2-digit number by a 1-digit number Multiply a 3-digit number by a 1-digit number Divide a 2-digit number by a 1-digit number (1) Divide a 2-digit number by a 1-digit number (2) Divide a 3-digit number by a 1-digit number Correspondence problems Efficient multiplication <p><u>Measurement</u></p> <p>Length & Perimeter</p> <ul style="list-style-type: none"> Measure in kilometres and metres Equivalent lengths (kilometres and metres) Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes Find missing lengths in rectilinear shapes Calculate the perimeter of rectilinear shapes Perimeter of regular polygons Perimeter of polygons E2.14 Use metric measures of length, including millimetres, centimetres, metres and kilometres 	<p><u>Number</u></p> <p>Decimals</p> <ul style="list-style-type: none"> Make a whole with tenths Make a whole with hundredths Partition decimals Compare decimals Order decimals Round to the nearest whole number Halves and quarters as decimals <p><u>Measurement</u></p> <p>Converting Units</p> <ul style="list-style-type: none"> E2.7 Know the number of hours in a day and weeks in a year; be able to name and sequence E2.15 Use measures of weight, including grams and kilograms E2.16 Use measures of capacity, including millilitres and litres E2.17 Read and compare positive temperatures <p>Money</p> <ul style="list-style-type: none"> Write money using decimals Convert between pounds and pence Compare amounts of money Estimate with money Calculate with money Solve problems with money E2.12 Calculate money with pence up to one pound and in whole pounds of multiple items and write with the correct symbols (£ or p) <p>Time</p> <ul style="list-style-type: none"> Years, months, weeks and days Hours, minutes and seconds Convert between analogue and digital times Convert to the 24 hour clock Convert from the 24 hour clock E2.13 Read and record time in common date formats and read time displayed on analogue clocks in hours, half hours and quarter hours, and understand hours from a 24-hour digital clock

<ul style="list-style-type: none"> Subtract two 4-digit numbers - no exchange Subtract two 4-digit numbers - one exchange Subtract two 4-digit numbers - more than one exchange Efficient subtraction Estimate answers Checking strategies <p><u>Measurement</u></p> <p>Perimeter & Area</p> <ul style="list-style-type: none"> What is area? Count squares Make shapes Compare areas <p><u>Number</u></p> <p>Multiplication & Division</p> <ul style="list-style-type: none"> E2.6 Multiply whole numbers in the range 0 × 0 to 12 × 12 (times tables) Multiples of 3 Multiply and divide by 6 6 times-table and division facts Multiply and divide by 9 9 times-table and division facts The 3, 6 and 9 times-tables Multiply and divide by 7 7 times-table and division facts 11 times-table and division facts 12 times-table and division facts Multiply by 1 and 0 Divide a number by 1 and itself Multiply three numbers E2.8 Divide two-digit whole numbers by single-digit whole numbers and express remainders 	<p><u>Number</u></p> <p>Fractions</p> <ul style="list-style-type: none"> Understand the whole Count beyond 1 Partition a mixed number Number lines with mixed numbers Compare and order mixed numbers Understand improper fractions Convert mixed numbers to improper fractions Convert improper fractions to mixed numbers Equivalent fractions on a number line Equivalent fraction families Add two or more fractions Add fractions and mixed numbers Subtract two fractions Subtract from whole amounts Subtract from mixed numbers E2.10 Recognise simple fractions (halves, quarters and tenths) of whole numbers and shapes <p>Decimals</p> <ul style="list-style-type: none"> Tenths as fractions Tenths as decimals Tenths on a place value chart Tenths on a number line Divide a 1-digit number by 10 Divide a 2-digit number by 10 Hundredths as fractions Hundredths as decimals Hundredths on a place value chart Divide a 1- or 2-digit number by 100 E2.11 Read, write and use decimals to one decimal place 	<p><u>Geometry</u></p> <p>Shape</p> <ul style="list-style-type: none"> Understand angles as turns Identify angles Compare and order angles Triangles Quadrilaterals Polygons Lines of symmetry Complete a symmetric figure E2.19 Recognise and name 2-D and 3-D shapes, including pentagons, hexagons, cylinders, cuboids, pyramids and spheres E2.20 Describe the properties of common 2-D and 3-D shapes, including numbers of sides, corners, edges, faces, angles and base <p><u>Statistics</u></p> <ul style="list-style-type: none"> Interpret charts Comparison, sum and difference Interpret line graphs Draw line graphs E2.18 Read and use simple scales to the nearest labelled division E2.22 Extract information from lists, tables, diagrams and bar charts E2.23 Make numerical comparisons from bar charts E2.24 Sort and classify objects using two criteria E2.25 Take information from one format and represent the information in another format, including use of bar charts <p><u>Position & Direction</u></p> <ul style="list-style-type: none"> Describe position using coordinates Plot coordinates Draw 2-D shapes on a grid Translate on a grid Describe translation on a grid E2.21 Use appropriate positional vocabulary to describe position and direction, including between, inside, outside, middle, below, on top, forwards and backwards
Freckle: Inquiry Based Activity	Freckle: Inquiry Based Activity	Freckle: Inquiry Based Activity

Year 8 are currently working towards passing their Pearson Edexcel Functional Skills Entry Level 3 exam.

Number

Place value – (White Rose)

- Numbers to 1,000,000
- Numbers to 10,000,000
- Read and write numbers to 10,000,000
- Powers of 10
- Number line to 10,000,000
- Compare and order any integers
- Round any integer
- Negative numbers

Addition, Subtraction, Multiplication & Division (White Rose)

- Add and subtract integers
- Common factors
- Common multiples
- Rules of divisibility
- Primes to 100
- Square and cube numbers
- Multiply up to a 4-digit number by a 2-digit number
- Solve problems with multiplication
- Short division
- Division using factors
- Introduction to long division
- Long division with remainders
- Solve problems with division
- Solve multi-step problems
- Order of operations
- Mental calculations and estimation
- Reason from known facts

Fractions A

- Equivalent fractions and simplifying
- Equivalent fractions on a number line

Statistics

- Line graphs
- Dual bar charts
- Read and interpret pie charts
- Pie charts with percentages
- Draw pie charts
- The mean
- E3.21 Extract information from lists, tables, diagrams and charts and create frequency tables
- E3.22 Interpret information, to make comparisons and record changes, from different formats, including bar charts and simple line graphs
- E3.23 Organise and represent information in appropriate ways, including tables, diagrams, simple line graphs and bar charts

Ratio

- Add or multiply?
- Use ratio language
- Introduction to the ratio symbol
- Ratio and fractions
- Scale drawing
- Use scale factors
- Similar shapes
- Ratio problems
- Proportion problems
- Recipes

Algebra

- 1-step function machines
- 2-step function machines
- Form expressions
- Substitution
- Formulae
- Form equations
- Solve 1-step equations
- Solve 2-step equations
- Find pairs of values

Number

Decimals

- Use known facts to add and subtract decimals within 1
- Complements to 1
- Add and subtract decimals across 1
- Add/subtract decimals with the same number of decimal places
- Add/subtract decimals with different numbers of decimal places
- Efficient strategies for adding and subtracting decimals
- Decimal sequences
- E3.9 Recognise and continue sequences that involve decimals
- E3.8 Read, write and use decimals up to two decimal places
- Multiply/divide by 10, 100 and 1,000
- Multiply and divide decimals - missing value

Measurement

Converting Units

- Kilograms and kilometres
- E3.16 Compare measures of weight, including grams and kilograms
- Millimetres and millilitres
- E3.14 Use and compare measures of length, capacity, weight and temperature using metric or imperial units to the nearest labelled or unlabelled division
- Convert units of length
- E3.17 Compare measures of capacity, including millilitres and litres
- Convert between metric and imperial units
- E3.18 Use a suitable instrument to measure mass and length
- E3.15 Compare metric measures of length, including millimetres, centimetres, metres and kilometres
- Convert units of time

<ul style="list-style-type: none"> • Compare and order (denominator) • Compare and order (numerator) • Add and subtract simple fractions • Add and subtract any two fractions • Add mixed numbers • Subtract mixed numbers • Multi-step problems <p>Fractions B</p> <ul style="list-style-type: none"> • Multiply fractions by integers • Multiply fractions by fractions • Divide a fraction by an integer • Divide any fraction by an integer • Mixed questions with fractions • Fraction of an amount • Fraction of an amount - find the whole • E3.1 Count, read, write, order and compare numbers up to 1000 • E3.2 Add and subtract using three-digit whole numbers • E3.3 Divide three-digit whole numbers by single- and double-digit whole numbers and express remainders • E3.4 Multiply two-digit whole numbers by single- and double-digit whole numbers • E3.5 Approximate by rounding numbers less than 1000 to the nearest 10 or 100 and use this rounded answer to check results • E3.6 Recognise and continue linear sequences of numbers up to 100 • E3.7 Read, write and understand thirds, quarters, fifths and tenths, including equivalent forms 	<ul style="list-style-type: none"> • Solve problems with two unknowns <p><u>Decimals</u></p> <ul style="list-style-type: none"> • Place value within 1 • Place value – integers and decimals • Round decimals • Add and subtract decimals • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply decimals by integers • Divide decimals by integers • Multiply and divide decimals in context <p><u>Fractions, Decimal & Percentages</u></p> <ul style="list-style-type: none"> • Decimal and fraction equivalents • Fractions as division • Understand percentages • Fractions to percentages • Equivalent fractions, decimals and percentages • Order fractions, decimals and percentages • Percentage of an amount – one step • Percentage of an amount – multi-step • Percentages – missing values <p><u>Measurement</u></p> <p>Area, Perimeter & Volume</p> <ul style="list-style-type: none"> • Shapes - same area • Area and perimeter • Area of a triangle – counting squares • Area of a right-angled triangle • Area of any triangle • Area of a parallelogram • Volume - counting cubes • Volume of a cuboid 	<ul style="list-style-type: none"> • E3.12 Read, measure and record time using am and pm • E3.13 Read time from analogue and 24-hour digital clocks in hours and minutes • Calculate with timetables • E3.10 Calculate with money using decimal notation and express money correctly in writing in pounds and pence • E3.11 Round amounts of money to the nearest £1 or 10p <p><u>Geometry</u></p> <p>Shape</p> <ul style="list-style-type: none"> • Measure and classify angles • Calculate angles • Vertically opposite angles • Angles in a triangle • Angles in a triangle – special cases • Angles in a triangle – missing angles • Angles in quadrilaterals • Angles in polygons • Circles • Draw shapes accurately • Nets of 3-D shapes <p>Position & Direction</p> <ul style="list-style-type: none"> • The first quadrant • Read and plot points in four quadrants • Solve problems with coordinates • Translations • Reflections • E3.20 Use appropriate positional vocabulary to describe position and direction, including eight compass points and full/half/quarter turns • E3.19 Sort 2-D and 3-D shapes using properties, including lines of symmetry, length, right angles, angles, including in rectangles and triangles
Freckle based inquiry	Freckle based inquiry	Freckle based inquiry

Year 8 - Ms Bromfield	<p>Year 8 are currently working on completing the KS1 curriculum and working towards passing their Pearson Edexcel Functional Skills Entry Level 1 exam.</p> <p>Number</p> <ul style="list-style-type: none"> E1.1 Read, write, order and compare numbers up to 20 E1.2 Use whole numbers to count up to 20 items, including zero <p>Place Value</p> <ul style="list-style-type: none"> Numbers to 20 Count objects to 100 by making 10s Recognise tens and ones Use a place value chart Partition numbers to 100 Write numbers to 100 in words Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100 Estimate numbers on a number line Compare objects Compare numbers Order objects and numbers Count in 2s, 5s and 10s Count in 3s <p>Addition & Subtraction</p> <ul style="list-style-type: none"> E1.3 Add numbers which total up to 20, and subtract numbers from numbers up to 20 E1.4 Recognise and interpret the symbols +, – and = appropriately Bonds to 10 Fact families - addition and subtraction bonds within 20 Related facts Bonds to 100 (tens) Add and subtract 1s Add by making 10 Add three 1-digit numbers Add to the next 10 Add across a 10 	<p>Measurement</p> <p>Money</p> <ul style="list-style-type: none"> E1.5 Recognise coins and notes and write them in numbers with the correct symbols (£ & p), where these involve numbers up to 20 Count money - pence Count money - pounds (notes and coins) Count money - pounds and pence Choose notes and coins Make the same amount Compare amounts of money Calculate with money Make a pound Find change Two-step problems <p>Number</p> <p>Multiplication & Division</p> <ul style="list-style-type: none"> Recognise equal groups Make equal groups Add equal groups Introduce the multiplication symbol Multiplication sentences Use arrays Make equal groups – grouping Make equal groups – sharing The 2 times-table Divide by 2 Doubling and halving Odd and even numbers The 10 times-table Divide by 10 The 5 times-table Divide by 5 The 5 and 10 times-tables <p>Measurement</p> <p>Length & Height</p> <ul style="list-style-type: none"> E1.8 Describe and make comparisons in words between measures of items including size, length, width, height, weight and capacity 	<p>Number</p> <p>Fractions</p> <ul style="list-style-type: none"> Introduction to parts and whole Equal and unequal parts Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third Find a third Find the whole Unit fractions Non-unit fractions Recognise the equivalence of a half and two quarters Recognise three-quarters Find three-quarters Count in fractions up to a whole <p>Measurement</p> <p>Time</p> <ul style="list-style-type: none"> E1.6 Read 12-hour digital and analogue clocks in hours E1.7 Know the number of days in a week, months and seasons in a year; be able to name and sequence O'clock and half past Quarter past and quarter to Tell time past the hour Tell time to the hour Tell the time to 5 minutes Minutes in an hour Hours in a day <p>Statistics</p> <ul style="list-style-type: none"> E1.11 Read numerical information from lists E1.12 Sort and classify objects using a single criterion 	<p>Students successfully complete the KS1 objectives and are ready to pass the FS EL 1 exam.</p>
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<ul style="list-style-type: none"> Subtract across 10 Subtract from a 10 Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less Add and subtract 10s Add two 2-digit numbers (not across a 10) Add two 2-digit numbers (across a 10) Subtract two 2-digit numbers (not across a 10) Subtract two 2-digit numbers (across a 10) Mixed addition and subtraction Compare number sentences Missing number problems <p><u>Measurement</u></p> <p><u>Shape</u></p> <ul style="list-style-type: none"> E1.9 Identify and recognise common 2-D and 3-D shapes, including circle, cube, rectangle (including square) and triangle Recognise 2-D and 3-D shapes Count sides on 2-D shapes Count vertices on 2-D shapes Draw 2-D shapes Lines of symmetry on shapes Use lines of symmetry to complete shapes Sort 2-D shapes Count faces on 3-D shapes Count edges on 3-D shapes Count vertices on 3-D shapes Sort 3-D shapes Make patterns with 2-D and 3-D shapes 	<ul style="list-style-type: none"> Measure in centimetres Measure in metres Compare lengths and heights Order lengths and heights Four operations with lengths and heights <p>Mass, Capacity & Temperature</p> <ul style="list-style-type: none"> Compare mass Measure in grams Measure in kilograms Four operations with mass Compare volume and capacity Measure in millilitres Measure in litres Four operations with volume and capacity Temperature 	<ul style="list-style-type: none"> E1.13 Read and draw simple charts and diagrams, including a tally chart, block diagram/graph Make tally charts Tables Block diagrams Draw pictograms Interpret pictograms Draw pictograms Interpret pictograms <p><u>Geometry</u></p> <p><u>Position & Direction</u></p> <ul style="list-style-type: none"> E1.10 Use everyday positional vocabulary to describe position and direction, including left, right, in front, behind, under and above Language of position Describe movement Describe turns Describe movement and turns Shape patterns with turns 	
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	Term 1: Sept –Dec Content	Term 2: Jan-April Content	Term 3: April - July Content
Year 8 – Mrs Shaw	<p>Year 8 are currently working on completing the KS2 curriculum and working towards passing their Pearson Edexcel Functional Skills Entry Level 3 exam.</p> <p><u>Measurement</u></p> <p>Converting Units</p> <ul style="list-style-type: none"> Kilograms and kilometres E3.16 Compare measures of weight, including grams and kilograms Millimetres and millilitres E3.14 Use and compare measures of length, capacity, weight and temperature using metric or imperial units to the nearest labelled or unlabelled division Convert units of length E3.17 Compare measures of capacity, including millilitres and litres Convert between metric and imperial units E3.18 Use a suitable instrument to measure mass and length E3.15 Compare metric measures of length, including millimetres, centimetres, metres and kilometres Convert units of time E3.12 Read, measure and record time using am and pm E3.13 Read time from analogue and 24-hour digital clocks in hours and minutes Calculate with timetables E3.10 Calculate with money using decimal notation and express money correctly in writing in pounds and pence E3.11 Round amounts of money to the nearest £1 or 10p 	<p><u>Measurement</u></p> <p>Area, Perimeter & Volume</p> <ul style="list-style-type: none"> Shapes - same area Area and perimeter Area of a triangle – counting squares Area of a right-angled triangle Area of any triangle Area of a parallelogram Volume - counting cubes <p>Volume of a cuboid</p> <p><u>Statistics</u></p> <ul style="list-style-type: none"> Line graphs Dual bar charts Read and interpret pie charts Pie charts with percentages Draw pie charts The mean E3.21 Extract information from lists, tables, diagrams and charts and create frequency tables E3.22 Interpret information, to make comparisons and record changes, from different formats, including bar charts and simple line graphs E3.23 Organise and represent information in appropriate ways, including tables, diagrams, simple line graphs and bar charts 	<p><u>Geometry</u></p> <p>Shape</p> <ul style="list-style-type: none"> Measure and classify angles Calculate angles Vertically opposite angles Angles in a triangle Angles in a triangle – special cases Angles in a triangle – missing angles Angles in quadrilaterals Angles in polygons Circles Draw shapes accurately Nets of 3-D shapes <p>Position & Direction</p> <ul style="list-style-type: none"> The first quadrant Read and plot points in four quadrants Solve problems with coordinates Translations Reflections E3.20 Use appropriate positional vocabulary to describe position and direction, including eight compass points and full/half/quarter turns E3.19 Sort 2-D and 3-D shapes using properties, including lines of symmetry, length, right angles, angles, including in rectangles and triangles
	Freckle based inquiry	Freckle based inquiry	Freckle based inquiry

	Term 1: Sept. – Dec. Content	Term 2: Jan - April Content	Term 3: April - July Content	Desired end of Year outcomes
Year 8 Mrs D Nowacka	<p>Place Value: Count objects from a larger group Recognise numbers as words up to 20 Count on and back from any number within 20 Find 1 more and 1 less Compare groups by matching Understand comparative adjectives: fewer, more, same less than, greater than, equal to Compare numbers within 20 Order objects and numbers within 20 Understanding and using the number line. Identify and represent numbers to 20 using different representations including 10's and ones.</p> <p>Calculation Understanding part-whole model Fact families – addition facts within 10 Number bonds to 10 Addition – add more, count on Find a part Subtraction – find a part Subtraction – take away/count back Use number bonds to solve simple problems.</p> <p>Shapes, space and measure Shape Recognise, sort and name 3-D shapes. Recognise and name some of 3D shapes properties. Recognise, sort and name 2-D shapes. Recognise and name some of 2D shapes properties. Recognise, create and complete patterns with 2-D and 3-D shapes</p> <p>Time Recognising and ordering days of the week, months of the year and seasons Describe a sequence of familiar events and put events on a simple timeline. Using time related vocabulary accurately when talking about time: yesterday, today, tomorrow, earlier/later, morning/afternoon/evening/night. Solving simple problems related to time.</p>	<p>CONSOLIDATION Calculation <i>Part-whole model</i> <i>Write number sentences</i> <i>Number bonds within 10</i> <i>Systematic number bonds within 10</i> <i>Fact families – addition and subtraction facts</i></p> <p>Shapes, space and measure Shape <i>Recognise, sort and name 3-D and 2D shapes.</i> <i>Recognise, create and complete patterns with 2-D and 3-D shapes</i></p> <p>Place Value Count within 20 Understand 10 Understand teen numbers Understand 20 1 more and 1 less in numbers to 20 The number line to 20 – use and estimate Compare numbers to 20 Order numbers to 20</p> <p>Calculation Add and subtract within 20 including using number bonds and finding the difference Number families – related facts in numbers to 20 Solving problems with missing numbers</p> <p>Shapes, Space and Measure Compare lengths and heights Measure length using non-standard and standard units of measurement Compare mass, volume and capacity Measure mass, volume and capacity Using vocabulary related to length, mass, volume and capacity</p>		<p>Understanding and applying all five principles of counting consistently.</p> <ol style="list-style-type: none"> 1.The one to one principle: one number-one object 2.The stable order principle: order of numbers stays the same 3.The cardinal principle: the last number said when counting is the total of the group. 4.The abstraction principle: even things that cannot be touched (like sounds or actions) can be counted. 5.The order irrelevance principle: the order of counted quantities/actions/sounds doesn't matter, the total will always be the same. <p>Confidently count forwards and backwards from any given number to at least 20. Recognise and represent numbers to at least 20 in various contexts. Understand number relationships and apply in different contexts when solving simple problems. Create simple timelines, sequence events and understands basic time related vocabulary. Show ability to apply these skills in everyday life. Understand the basic vocabulary related to measure length, mass and capacity. Show ability to apply these skills in everyday life. Recognise British coins and notes and understand everyday basic language related to money (pay, change, cheap, expensive). Show ability to apply these skills in everyday life.</p>

Year 8 are currently working on completing the KS2 curriculum and working towards passing their Pearson Edexcel Functional Skills Entry Level 2 exam.

Number

Place Value

- E2.1 Count reliably up to 100 items
- E2.2 Read, write, order and compare numbers up to 200
- E2.3 Recognise and sequence odd and even numbers up to 100
- E2.4 Recognise and interpret the symbols +, −, ×, ÷ and = appropriately
- Represent numbers to 1,000
- Partition numbers to 1,000
- Number line to 1,000
- Represent numbers to 10,000
- Partition numbers to 10,000
- Flexible partitioning of numbers to 10,000
- Find 1, 10, 100, 1,000 more or less
- Number line to 10,000
- Estimate on a number line to 10,000
- Compare numbers to 10,000
- Order numbers to 10,000
- Roman numerals
- Round to the nearest 10
- Round to the nearest 100
- Round to the nearest 1,000
- Round to the nearest 10, 100 or 1,000
- E2.9 Approximate by rounding to the nearest 10, and use this rounded answer to check results

Addition & Subtraction

- E2.5 Add and subtract two-digit numbers
- Add and subtract 1s, 10s, 100s and 1,000s
- Add up to two 4-digit numbers - no exchange
- Add two 4-digit numbers - one exchange
- Add two 4-digit numbers - more than one exchange
- Subtract two 4-digit numbers - no exchange

Multiplication & Division

- Factor pairs
- Use factor pairs
- Multiply by 10
- Multiply by 100
- Divide by 10
- Divide by 100
- Related facts – multiplication and division
- Informal written methods for multiplication
- Multiply a 2-digit number by a 1-digit number
- Multiply a 3-digit number by a 1-digit number
- Divide a 2-digit number by a 1-digit number (1)
- Divide a 2-digit number by a 1-digit number (2)
- Divide a 3-digit number by a 1-digit number
- Correspondence problems
- Efficient multiplication

Measurement

Length & Perimeter

- Measure in kilometres and metres
- Equivalent lengths (kilometres and metres)
- Perimeter on a grid
- Perimeter of a rectangle
- Perimeter of rectilinear shapes
- Find missing lengths in rectilinear shapes
- Calculate the perimeter of rectilinear shapes
- Perimeter of regular polygons
- Perimeter of polygons
- E2.14 Use metric measures of length, including millimetres, centimetres, metres and kilometres

Number

Decimals

- Make a whole with tenths
- Make a whole with hundredths
- Partition decimals
- Compare decimals
- Order decimals
- Round to the nearest whole number
- Halves and quarters as decimals

Measurement

Converting Units

- E2.7 Know the number of hours in a day and weeks in a year; be able to name and sequence
- E2.15 Use measures of weight, including grams and kilograms
- E2.16 Use measures of capacity, including millilitres and litres
- E2.17 Read and compare positive temperatures

Money

- Write money using decimals
- Convert between pounds and pence
- Compare amounts of money
- Estimate with money
- Calculate with money
- Solve problems with money
- E2.12 Calculate money with pence up to one pound and in whole pounds of multiple items and write with the correct symbols (£ or p)

Time

- Years, months, weeks and days
- Hours, minutes and seconds
- Convert between analogue and digital times
- Convert to the 24 hour clock
- Convert from the 24 hour clock
- E2.13 Read and record time in common date formats and read time displayed on analogue clocks in hours, half hours and quarter hours, and understand hours from a 24-hour digital clock

Geometry

Shape

<ul style="list-style-type: none"> Subtract two 4-digit numbers - one exchange Subtract two 4-digit numbers - more than one exchange Efficient subtraction Estimate answers Checking strategies <p><u>Measurement</u></p> <p>Perimeter & Area</p> <ul style="list-style-type: none"> What is area? Count squares Make shapes Compare areas <p><u>Number</u></p> <p>Multiplication & Division</p> <ul style="list-style-type: none"> E2.6 Multiply whole numbers in the range 0×0 to 12×12 (times tables) Multiples of 3 Multiply and divide by 6 6 times-table and division facts Multiply and divide by 9 9 times-table and division facts The 3, 6 and 9 times-tables Multiply and divide by 7 7 times-table and division facts 11 times-table and division facts 12 times-table and division facts Multiply by 1 and 0 Divide a number by 1 and itself Multiply three numbers E2.8 Divide two-digit whole numbers by single-digit whole numbers and express remainders 	<p><u>Number</u></p> <p>Fractions</p> <ul style="list-style-type: none"> Understand the whole Count beyond 1 Partition a mixed number Number lines with mixed numbers Compare and order mixed numbers Understand improper fractions Convert mixed numbers to improper fractions Convert improper fractions to mixed numbers Equivalent fractions on a number line Equivalent fraction families Add two or more fractions Add fractions and mixed numbers Subtract two fractions Subtract from whole amounts Subtract from mixed numbers E2.10 Recognise simple fractions (halves, quarters and tenths) of whole numbers and shapes <p>Decimals</p> <ul style="list-style-type: none"> Tenths as fractions Tenths as decimals Tenths on a place value chart Tenths on a number line Divide a 1-digit number by 10 Divide a 2-digit number by 10 Hundredths as fractions Hundredths as decimals Hundredths on a place value chart Divide a 1- or 2-digit number by 100 E2.11 Read, write and use decimals to one decimal place 	<ul style="list-style-type: none"> Understand angles as turns Identify angles Compare and order angles Triangles Quadrilaterals Polygons Lines of symmetry Complete a symmetric figure E2.19 Recognise and name 2-D and 3-D shapes, including pentagons, hexagons, cylinders, cuboids, pyramids and spheres E2.20 Describe the properties of common 2-D and 3-D shapes, including numbers of sides, corners, edges, faces, angles and base <p><u>Statistics</u></p> <ul style="list-style-type: none"> Interpret charts Comparison, sum and difference Interpret line graphs Draw line graphs E2.18 Read and use simple scales to the nearest labelled division E2.22 Extract information from lists, tables, diagrams and bar charts E2.23 Make numerical comparisons from bar charts E2.24 Sort and classify objects using two criteria E2.25 Take information from one format and represent the information in another format, including use of bar charts <p><u>Position & Direction</u></p> <ul style="list-style-type: none"> Describe position using coordinates Plot coordinates Draw 2-D shapes on a grid Translate on a grid Describe translation on a grid E2.21 Use appropriate positional vocabulary to describe position and direction, including between, inside, outside, middle, below, on top, forwards and backwards
Freckle: Inquiry Based Activity	Freckle: Inquiry Based Activity	Freckle: Inquiry Based Activity