Year 6 coverage overview 2023-24

Quality First Education Trust

Autumn 1: 33 lessons				
1 Chapter 1: Numbers to 10 Million *(Factual fluency: including number sequences)*				
INSET day Q1E	**INSET day school**	**Lesson 1: Reading and Writing Numbers to 10 Million** To construct and record numbers to 10 000 000; to recognise the value of digits to 10 000 000. **NB: Revisit expectations of consolidation and deepening.**	**Lesson 2: Comparing Numbers to 10 Million** To compare numbers to 10 000 000 using place value.	**Lesson 3: Comparing and Ordering Numbers to 10 Million** To compare & order numbers to 10 000 000; to create combinations of numbers using a fixed number of digits.
2 Chapter 1: Nos to 10 Million *Ff: incl. rounding measures/ money)*			**Chapter 2: Four operations of whole numbers**	
Lesson 4: Rounding Numbers To round numbers to 10 000 000 to the nearest million, hundred thousand and ten thousand.	**Lesson 5: Rounding Numbers** To round numbers to the nearest appropriate number up to and including millions; to determine when rounding is appropriate and to which value.	**Chapter 1 review and consolidation** To practise various concepts covered in the chapter	**Lesson 1: Using Mixed Operations** To use multiple operations and create expressions from a picture; to use the order of operations to solve expressions.	**Lesson 2: Order of Operations** To create and solve expressions using the four operations.
**3 Chapter 2: Four operations of whole numbers ** *(Factual fluency: including place value ordering)*				
Lesson 3: Multiplying by Tens To multiply numbers by multiples of 10; to use number bonds as a key strategy in multiplication.	**Lesson 5: Multiplying by Two-Digit Numbers** To multiply 3- and 4-digit numbers by 2-digit numbers without regrouping or renaming; to use both number bonds & column method	**Lesson 6: Multiplying a 3-Digit Number by a 2-Digit Number**To multiply 3- & 4-digit numbers by 2-digit numbers with regrouping & renaming; to use number bonds & pattern recognition for multiplication.	**Lesson 7: Multiplying a 4-Digit Number by a 2-Digit Number**To multiply 3- and 4-digit numbers by 2-digit numbers with regrouping and renaming; to use number bonds and the column method	**Lesson 8: Multiplying by Two-Digit Numbers** To estimate products of multiplying 3- & 4-digit numbers by 2-digit numbers; to use knowledge of multiplication to create specific products.
4 Chapter 2: Four operations of whole numbers *(Factual fluency: including x/ ÷ by 10, 100, 1000)*				
Lesson 9: Dividing by Two-Digit Numbers To divide 3-digit by 2-digit numbers using strategies; to use number bonds, long division & bar models to facilitate division by 2-digit numbers.	**Lesson 10: Dividing by Two-Digit Numbers** To divide 4-digit numbers by 2-digit numbers; to use number bonds and long division as the key strategies.	**Lesson 11: Dividing by Two-Digit Numbers** To divide 4-digit numbers by 2-digit numbers using a variety of methods; to use no. bonds, long & short division as methods.	**Lesson 12: Dividing by Two-Digit Numbers** To divide 3-digit by 2-digit numbers giving rise to remainders; to use number bonds, long & short division as key to solve division problems.	**Lesson 13: Dividing by Two-Digit Numbers with Remainder** To divide 4-digit numbers by 2-digit numbers giving rise to a remainder; to represent the remainder as part of a whole amount of money/decimal
5 Chapter 2: Four operations of whole numbers *(Factual fluency: including inverse operations)*				
Lesson 14: Solving Word Problems Using Bar Models To use bar model heuristic to solve word problems involving multiplication & division	**Lesson 15: Solving Word Problems Using Patterns** To solve word problems using division as the main strategy; pictorial representations to support word problems.	**Lesson 16: Solving Word Problems Using Multiple Methods** To solve word problems involving multiple operations, including multiplication & division.	**Consolidation of 4 operations** To be used if lessons take longer than expected or topic needs to be revisited.	**Lesson 17: Finding Common Multiples** To find common multiples in real-life; use common multiples in tandem with knowledge of time.
6 Chapter 2: Four operations of whole numbers *(Factual fluency: including cube/square numbers)*				
Lesson 18: Finding Common Multiples To use common multiples to solve problems; to organise thinking into tables and lists.	**Lesson 19: Finding Common Factors** To find the largest common factor of 3-digit numbers; to use x ÷ division for common factor.	**Lesson 20: Finding Common Factors** To find the common factor of 3-digit numbers; to use x ÷ division for common factor.	**Lesson 21: Finding Prime Numbers** To use prime nos. to create other numbers; to explore prime numbers >100	**Lesson 22: Finding Prime Numbers** To explore prime numbers using concrete materials; to identify prime numbers using multiplication or division.
7 *(FF: including factors/multiples/prime)*		**Chapter 3: Fractions**		
Consolidation of multiples, factors and prime numbers To be used if lessons take longer than expected or topic needs to be revisited.	**Chapter 2 review and consolidation** To practise various concepts covered in the chapter	**Lesson 1: Simplifying Fractions Using common Factors** To use concrete materials to simplify fractions; to recognise equivalence in fractions to ¼.	**Lesson 2: Simplify Fractions Using Common Factors** To simplify fractions using division & common factors; to represent fractions using concrete material & pictorial.	**Lesson 3: Comparing and Ordering Proper Fractions** To compare fractions and place them in order from smallest to largest.
Half term break				

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Autumn 2: 38 lessons				
1 Chapter 3: Fractions *(Factual fluency: multiplying w' known facts)*				
INSET day Q1E	**Lesson 4: Comparing and Ordering Improper Fractions** To compare and order fractions by finding common denominators.	**Lesson 5: Comparing and Ordering Fractions and Mixed Numbers** To compare and order fractions using common factors.	**Lesson 6: Adding and Subtracting Unlike Fractions** Add & subtract fractions w' different denomintors; using pictorial to compare add/subtract fraction	**Lesson 7: Adding and Subtracting Unlike Fractions** To add and subtract fractions with different denominators.
2 Chapter 3: Fractions				
Lesson 8: Adding and Subtracting Mixed Numbers To add & subtract mixed nos, incl. fractions different denominators; to subtract from whole & add the remainder.	**Lesson 9: Adding and Subtracting Mixed Numbers** To add and subtract fractions with different denominators; to add and subtract mixed numbers.	**Lesson 10: Multiplying Pairs of Proper Fractions** To multiply fractions using pictorial representations and abstract methods.	**Lesson 11: Multiplying Pairs of Proper Fractions** To determine if the commutative law applies to fractions; to multiply fractions using concrete and pictorial.	**Lesson 12: Multiplying Pairs of Proper Fractions** To use concrete to understand & solve the multip'n of fractions; to simplify equations using pattern blocks.
3 Chapter 3: Fractions				
Lesson 13: Dividing a Fraction by a Whole Number To divide a fraction by a whole number; to use pictorial to divide whole numbers into fractions.	**Lesson 14: Dividing a Fraction by a Whole Number** To divide fractions by whole nos. concrete & pictorial; to divide fractions (when numerator & divisor not easily divisible).	**Lesson 15: Dividing a Fraction by a Whole Number** To divide fractions by a whole number; to use pictorial to support division.	**Consolidation of fractions** To be used if lessons take longer than expected or topic needs to be revisited. **Revist non-unit fractions of amounts.**	**Chapter 2 review and consolidation** To practise various concepts covered in the chapter
4 Chapter 4: Decimals				
COMBINED LESSONS: Lesson 1: Writing and Reading Decimals To read & write decimals to thousandths; concrete to represent decimals. **Lesson 2: Dividing Whole Numbers by Multiples of 10** To divide whole numbers by larger whole numbers; Dienes 1/10s, 1/100s & 1/1000s.	**Lesson 3: Dividing Whole Numbers** To be able to associate a fraction with division, and calculate decimal fraction equivalents for a simple fraction. **Or complete lesson 4**	**AUTUMN TEST: arithmetic (SATs paper 2019)** **Review most important questions**	**AUTUMN TEST: reasoning (SATs paper 2019)** **Review most important questions**	**AUTUMN TEST: reasoning (SATs paper 2019)** **Review most important questions**
5 Chapter 4: Decimals				
Lesson 5: Writing Fractions as Decimals To write fractions as decimals; to use long division as the key strategy	**Lessons 6: Multiplying Decimals Without Renaming** To multiply whole nos including decimal by whole numbers; to use partition & worded method.	**Lesson 7: Multiplying Decimals With Renaming** To multiply whole nos that include a decimal by whole numbers; to use partitioning & worded method.	**Lesson 8: Multiplying Decimals With Renaming** To multiply decimals by whole numbers including regrouping and renaming.	**Lesson 10: Dividing Decimals Without Renaming** To divide decimals using number bonds and number discs as the key strategies. (Method 2)
6 Chapter 4: Decimals				
Lesson 11: Dividing Decimals With Renaming To divide decimals using bar models, number bonds & long division as key strategies, including regrouping & renaming.	**Lesson 12: Multiplying a Decimal by a 2-Digit Whole Number** To multiply decimals by a 2-digit whole number using number discs and the column method.	**Lesson 13: Dividing a Decimal by a 2-Digit Whole Number** To divide decimals by 2-digit numbers using number bonds and the worded method.	**Lesson 14: Dividing a Decimal by a 2-Digit Whole Number** To divide decimals by 2-digit whole numbers using number bonds and the worded method.	**Consolidation** To be used if lessons take longer than expected or topic needs to be revisited. *Can be used any time in the chapter.*
7 Chapter 4: Decimal		**Chapter 5: Measurements**		
Consolidation To be used if lessons take longer than expected or topic needs to be revisited. *If needed, can be used any time in the chapter.*	**Chapter 4 review and consolidation** To practise various concepts covered in the chapter	**Lesson 1: Converting Units of Length: Millimetres and Centimetres** To convert common measurements to metres, centimetres and millimetres.	**Lesson 2: Converting Units of Length: Metres and Centimetres** To convert units of measure into different units; to use knowledge of decimals & fractions to convert.	**Lesson 3: Converting Units of Length: Kilometres and Metres** To convert metres into kilometres as units of measure.
8 Chapter 5: Measurements *(Factual fluency: including reading clocks/time)*				
Lesson 4: Converting Units of Length: Miles and Kilometres To convert distances between miles and kilometres.	**Lesson 5: Converting Units of Mass** To convert units of mass from grams to kilograms using decimals & fractions.	**Lesson 6: Converting Units of Volume** To convert units of volume from millilitres to litres.	**Consolidation** To be used if lessons take longer than expected or topic needs to be revisited. *Can be used any time in the chapter.*	**Christmas break**
Christmas holiday break				

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Spring 1: 24 lessons				
1 Chapter 5: Measurements *(Factual Fluency: Roman Numerals)*			**Non-MNP Word problems**	
INSET day school	**Lesson 7: Converting Units of Time** To convert units of time from minutes to hours; to represent time using 24-hour notation.	**Chapter 5 review and consolidation** To practise various concepts covered in the chapter *(Or reinforce conversion of measures)*	Power Maths Practice book C, P.54-56	Power Maths Practice Book C, p.69
2 Non-MNP Word problems		**Test, review and remediation** *(NB:Introduce and start to use fluent in five)*		
SATs style word problems **(including time problems)**	SATs style word problems	**Revision and Mid-year Tests (A)** **Review and Remediation** **NB: Do not attempt section C**	**Revision and Mid-year Tests (A)** **Review and Remediation**	**Revision and Mid-year Tests (A)** **Review and Remediation**
3 Chapter 7: Percentage				
Lesson 1: Finding the Percentage of a Number To find the % of a whole number using division and multiplication; to use bar modelling as a pictorial approach to calculating %.	*ADDITIONAL LESSON:* **% of amounts (NB: Include focus on 1%)** **NB: Could use SATs style arithmetic questions.**	**Lesson 2: Finding the Percentage of a Quantity** To find the % of a quantity; to use bar model diagrams to support the division and multiplication of numbers towards the percentage.	**Lesson 3: Finding Percentage Change** To find % change in an amount over time; to calculate % change where the number gives rise to a decimal.	**Lesson 4: Using Percentage to Compare** To use percentage, bar models and fractions to compare amounts.
4 Chapter 7: Percentage			**Chapter 8: Ratio**	
ADDITIONAL LESSON: **Problem solving with percentages:** Power Maths Practice Book C, p.66	ADDITIONAL LESSON: **Fractions, decimals and equivalence problems** Power Maths, Book 6B, Pearson p50	**Chapter 7 review and consolidation** To practise various concepts covered in the chapter. *(Or reinforce percentge)*	**Lesson 1: Comparing Quantities** To use ratios and fractions to compare objects; to find the relationship between ratios, percenages and fractions.	**Lesson 2: Comparing Quantities** To determine the ratio of a quantity using concrete materials; to simplify ratios using concrete materials in addition to division
5 Chapter 8: Ratio *(Factual fluency: including simple 10%/1% of amounts)*				
Lesson 3 Comparing Several Quantities To express proportions using ratio.	**Lesson 4: Finding Quantities from Ratios** To be able to use ratio to count quantities.	**Lesson 5: Ratios with Measurements** To be able to use ratio to measure quantities.	**Lesson 7: Comparing Ratios to Find a Quantity** To be able to solve problems involving ratio.	**Lesson 8: Word Problems Involving Ratio** To be able to solve problems involving ratio. *(Use Lesson 9 or 10, if more appropriate)*
Half term				

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Spring 2: 29 lessons				
1 Chapter 8: Ratio	**Chapter 9: Algebra**			
Chapter 8 review and consolidation To practise various concepts covered in the chapter.	**Lesson 1: Describing a Pattern** To determine a pattern using concrete materials and pictorial; to use a table to identify a repeating pattern; to express a rule using letter or symbol	**Lesson 2: Describing a Pattern** To determine a pattern using concrete materials and pictorial; to use a table to identify a repeating pattern; to express the relationship between consequative numbers in terms of a letter or symbol	**COMBINED LESSONS: Lesson 3 and 4: Describing a Pattern** To determine a pattern using concrete materials & pictorial; to use a table to identify a repeating pattern; to express the relationship between consequative numbers in terms of a letter or symbol; including using a number or letter for multiplication	**Lesson 5: Writing Algebraic Expressions** To use a table to identify a pattern; to write algebraic expressions using each of the four operations.
2 Chapter 9: Algebra				**Revision lesson**
Lesson 6: Writing Algebraic Expressions To use examples to identify rules; to write algebraic expressions using each of the four operations, to evaluate algebraic expressions including the use of inverse operations.	**Lesson 9: Using Formulae** To use formualae o solve problems; to replace a letter/variable with a number then solve the equation; to use inverse operations to solve equations.	**ADDITIONAL LESSON: Algebra Achieve 100+ p35 Algebra pairs**	**Consolidation (algebra: formulae)** To be used if lessons take longer than expected or topic needs to be revisited.	**Revise names, properties of 2D and 3D shapes.** Drawing 2D shapes (if time)
3				
Paper 1: arithmetic 2022 SATs (30 minute paper) **Review in factual fluency most important questions**	**Paper 2: reasoning 2022 SATs (40 minute paper)** **Review in factual fluency most important questions**	**Paper 3: reasoning 2022 SATs (40 minute paper)** **Review in factual fluency most important questions**	**Lesson 1: Finding the Area & Perimeter of Rectangles** To find area & perimeter of rectangles; calculate perimeter using known area and vice versa.	**Lesson 2: Finding the Base and Height of Triangles** To use prior knowledge of area to find & solve area of a triangle; to use formula for area of a rectangle to solve problems involving triangles.
4 Chapter 10: Area and Perimeter		**Chapter 11: Volume**		**Chapter 12: Geometry**
Lesson 3: Finding the Area of Triangles To calculate the area of a triangle using a formula; to calculate the area of a triangle in multiple ways.	**Lesson 4: Finding the Area of Parallelograms** To calculate the area of a parallelogram using an understanding of triangles; to use concrete materials to find the area of a paralleleogram.	**Lesson 1: Finding the Volume of Cubes and Cuboids** To find the volume of cubes and cuboids using materials. **Lesson 2: Finding the Volume of Cuboids** To determine formula for volume of cubes & cuboids & apply it to calculate the volume of shapes.	**Lesson 4: Finding the Volume of Cuboids** To be able to calculate, estimate and compare the volume of cubes and cuboids.	**Lesson 1: Investigating Vertically Opposite Angles** To investigate opposite angles; to solve problems with prior angles knowledge.
5 Chapter 12: Geometry				**Revision lesson**
Lesson 2: Solving Problems Involving Angles To solve problems involving angles using the bar model heuristic; to solve problems involving angles without protractors.	**Lesson 3: Investigating Angles in Triangles** To determine and show the sum of the angles inside a triangle.	**Lesson 4: Investigating Angles in Quadrilaterals** To investigate & find angles in quads.	**Lesson 6: Naming Parts of a Circle** To name parts of circles and know that the diameter is twice the radius. **Lesson 7: Solving Problems Involving Angles in a Circle** To solve problems involving angles in a circle.	**Revisit negative numbers**
6 Chapter 13: Position and Movement				
Lesson 1: Showing Negative Numbers To be able to use negative numbers in context and calculate intervals across zero.	**Lesson 2: Describing Position** To be able to describe positions on a full coordinate grid.	**Lesson 4: Drawing Polygons on a Coordinate Grid** To be able to draw simple shapes on a coordinate plane.	**Lesson 5: Describing Translations** To describe the translation of shapes on a coordinate grid.	**Easter break**
Easter Break				

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Summer 1: 28 or 29 lessons (check INSET)				
1 Chapter 13: Position and Movement			**Chapter 14: Graphs and averages**	
INSET day school: Belleville, Belleville Wix, The Alton **Churchfields:** **Revision according to class needs.**	**Lesson 6: Describing Reflections** To be able to reflect shapes in a mirror line. *(If needed at this time. If not move on.)*	**Consolidation of translation & reflection/ using co-ordinates** *(Or class specific)*	**Lesson 1: Understanding Averages** To calculate the average (mean) of sets of values.	**Lesson 2: Calculating Mean** To calculate the mean.
2 Chapter 14: Graphs and averages *(FF: reading & calculating basic data graphs/pictograms)*				**Ch15: Negative Nos**
Lesson 3: Calculating Mean To calculate the mean. *Lesson 4 as deepening?*	**COMBINED LESSONS:** **Lesson 5: Reading Pie Charts** To be able to read and interpret pie charts when they are split into equal parts. **Lesson 6: Reading Pie Charts** To be able to read and interpret pie charts when they are split into simple fractions.	**Lesson 7: Reading Pie Charts** To be able to read and interpret pie charts when they are split into percentages.	**Lesson 9: Reading Line Graphs** To read line graphs; to interpret the information in line graphs. *If too difficult/additional work needed use Year 5, Bk 5A, Ch 5. Reading Line Graphs (NB: don't bother with the table go onto 'Master')*	**COMBINED LESSON:** **Lesson 1: Adding and Subtracting Negative Numers** To be able to use negative numbers in context, and calculate intervals across zero. **Lesson 2: Using Negative Numbers** To be able to use negative numbers in context, and calculate intervals across zero.
3				
Paper 1 2023 SATs (30 minute paper) **Review in factual fluency most important questions**	**Paper 2 2023 SATs (40 minute paper)** **Review in factual fluency most important questions**	**Paper 3 2023 SATs (40 minute paper)** **Review in factual fluency most important questions**	Starter: **Fluent in 5 and/or Rapid Reasoning** **REVISION according to class need**	Starter: **Fluent in 5 and/or Rapid Reasoning** **REVISION according to class need**
4				
BANK HOLIDAY	Starter: **Fluent in 5 and/or Rapid Reasoning** **REVISION according to class need**	Starter: **Fluent in 5 and/or Rapid Reasoning** **REVISION according to class need**	Starter: **Fluent in 5 and/or Rapid Reasoning** **REVISION according to class need**	Starter: **Fluent in 5 and/or Rapid Reasoning** **REVISION according to class need**
5 SATS WEEK				
REVISION according to class need	**REVISION according to class need**	*Wednesday: arithmetic & reasoning paper 1*	*Thursday: reasoning paper 2*	
6 Chapter 11: Volume (remaining lessons)				
RECAP Lesson 1 and 2: Finding the Volume of Cubes and Cuboids	**Lesson 3: Finding the Volume of Cubes and Cuboids** To be able to estimate the volume of cubes and cuboids, and calculate volume using a formula.	**Lesson 5: Solving Problems Involving the Volume of Solids** To be able to calculate, estimate and compare the volume of cubes and cuboids.	**Consolidation day:** To be used if lessons take longer than expected or a topic needs to be revisited.	**Chapter 11 review and consolidation** To practise various concepts covered in the chapter.
Break for half term Homework:				

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Summer 2: 37 or 38 lessons (check INSET)				
1 Chapter 12: Geometry (remaining lessons)				
INSET day school: Churchfields **Belleville, Belleville Wix, The Alton:** Revisit geometry topics covered pre-SATs	**Lesson 5: Solving Problems Involving Angles in a Circle** To be able to solve problems involving angles in a circle.	**Lesson 8: Drawing Qudrilaterals** To be able to draw quadrilaterals using given dimensions.	**Lesson 9: Drawing Triangles** To be able to draw triangles using given dimensions and angles.	**Lesson 10: Drawing Triangles** To be able to solve problems involving similar shapes where the scale factor is known or can be found.
2 Chapter 8: Ratio (remaining lessons)				
Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.	**Lesson 6: Finding Ratios** To be able to compare quantities by writing a ratio.	**Lesson 9: Word Problems Involving Ratio** To be able to solve problems involving ratio.	**Lesson 10: Word Problems Involving Ratio** To be able to solve problems involving ratio.	**Consolidation day:** To be used if lessons take longer than expected or a topic needs to be revisited.
3 Chapter 9: Algebra (remaining lessons)				**Ch.10: Area & Perimeter**
Lesson 7: Writing and Evaluating Algebraic Expressions To be able to express missing number problems algebraically.	**Lesson 8: Writing Formulae** To be able to use simple formulae.	**Consolidation day:** To be used if lessons take longer than expected or a topic needs to be revisited.	**Chapter 9 review and consolidation** To practise various concepts covered in the chapter.	**Chapter 10 review and consolidation** To practise various concepts covered in the chapter.
4 Chapter 12: Geometry (remaining lessons)				
Lesson 11: Drawing Nets of 3-D Shapes (over 2 days) To be able to recognise and make nets for 3-D shapes.	**Lesson 11: Drawing Nets of 3-D Shapes (over 2 days)**	**Lesson 12: Drawing Nets of 3-D Shapes** To be able to recognise and make nets for 3-D shapes.	**Lesson 12: Drawing Nets of 3-D Shapes (over 2 days)**	**Chapter 12 review and consolidation** To practise various concepts covered in the chapter.
5 Chapter 13: Position and movement (remaining lessons)				
Lesson 3: Describe Position (over 2 days) To be able to describe positions on a full coordinate grid.	**Lesson 3: Describe Position (over 2 days)**	**Lesson 7: Describing Movements** To reposition objects so they can be reflected in the x and y axis as the mirror line.	**Lesson 8: Describing Movements** To describe the moevemnt of objects using the terms 'translation' and 'reflection'.	**Lesson 9: Using Algebra to Describe Movements (over 2 days)** To use algebra to describe the positions of coordinates in relationship to one another.
6 Chapter 13: Position and movement (remaining lessons)				
Lesson 9: Using Algebra to Describe Movements (over 2 days)	**Lesson 10: Using Algebra to Describe Movements (over 2 days)** To represent translation and reflection using algebraic notation.	**Lesson 10: Using Algebra to Describe Movements (over 2 days)**	**Consolidation day:** To be used if lessons take longer than expected or a topic needs to be revisited.	**Chapter 13 review and consolidation** To practise various concepts covered in the chapter.
7 Chapter 14: Graphs and averages (remaining lessons)				
Lesson 8: Reading Pie Charts To be able to interpret pie charts based on basic geometry.	**Lesson 10: Reading Line Graphs** To be able to interpret line graphs and use these to solve problems.	**Lesson 11: Converting Miles into Kilometres** To convert miles into kilometres and vice versa.	**Consolidation day:** To be used if lessons take longer than expected or a topic needs to be revisited.	**Chapter 14 review and consolidation** To practise various concepts covered in the chapter.
8 Test, Review and Remediation				
Revision and Mid-year Tests (A) **Review and Remediation**	**Revision and Mid-year Tests (A)** **Review and Remediation**	**Revision and Mid-year Tests (B)** **Review and Remediation**	**Summer break**	
Summer break				