Assessment Cycle Year 7 **Set 1**   2016-17   Subject   <u>Mathematics</u>

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Key Learning covered this term:	**1 Analysing and displaying data** **Delta 3:** 4.1 STEM: Data collection 1.1 Two-way tables and bar charts 1.2 Averages and range 1.3 Grouped data 1.4 More graphs 1.5 Pie charts 1.6 STEM: Scatter graphs and correlation **2 Number skills** 2.1 Factors, primes and multiples 2.3 Multiplying and dividing 2.4 Squares and square roots 2.5 More powers and roots 2.6 Calculations	**3 Equations, functions and formulae** 3.1 Simplifying algebraic expressions 3.2 Writing algebraic expressions 3.3 STEM: Using formulae 3.4 Writing formulae 3.5 Brackets and powers 3.6 Factorising expressions **4 Fractions** 4.1 Working with fractions 4.2 Adding and subtracting fractions 4.3 Fractions, decimals and percentages 4.4 Multiplying and dividing fractions 4.5 Working with mixed numbers	**5 Angles and shapes** 5.1 Angles and parallel lines 5.2 Triangles 5.3 Quadrilaterals 5.4 Polygons **6 Decimals** 6.1 Ordering decimals 6.2 Rounding decimals 6.3 Adding and subtracting decimals 6.4 Multiplying decimals 6.5 Dividing decimals 6.6 Fractions, decimals and percentages 6.7 FINANCE: Working with percentages	**7 Equations** 7.1 Solving one-step equations 7.2 Solving two-step equations 7.3 More complex equations 7.4 Trial and improvement	**8 Multiplicative reasoning** 8.1 STEM: Metric and imperial units 8.2 Writing ratios 8.3 Sharing in a given ratio 8.4 Proportion 8.5 Proportional reasoning 8.6 Using the unitary method **9 Perimeter, area and volume** 9.1 Triangles, parallelograms and trapeziums 9.2 Perimeter and area of compund shapes 9.3 Properties of 3D solids 9.4 Surface area 9.5 Volume 9.6 STEM: Measures of area and volume	**10 Sequences and graphs** 10.1 Sequences 10.2 The nth term 10.3 Pattern sequences 10.4 Coordinates and line segments 10.5 Graphs
Assessment will be	Pre and post topic test. Half term test 45min. 9 question written test out of 40 marks	Pre and post topic test. End of term test 45min. 19 question written test out of 65 marks	Pre and post topic test. Half term test 45min. 10 question written test out of 38 marks	Pre and post topic test. End of term test 45min. 12 question written test out of 47 marks	Pre and post topic test. Half term test 45min. 9 question written test out of 33 marks	Pre and post topic test. End of year exam. Two 1hour papers- non-calculator and calculator totalling out of 100 marks
Revision & How to prepare	Link to Frog for resources/websites to revise websites. online– Mymaths, Pixl maths app, samlearning corbettmaths. Mathsgenie,. mathswatch, all have online activities with worksheets paired for self assessment					
Further Reading	Names of texts Pearsons- KS3 Maths Progress Delta one http://www.pearsonschoolsandfecolleges.co.uk/Secondary/Mathematics-support/Schemes-of-Work/GCSE-Schemes-of-Work.aspx 2 year KS3 3 year GCSE Scheme of Work, high attainer					

Assessment Cycle Year 7 **Set 2**   2016-17   Subject   <u>**Mathematics**</u>

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Key Learning covered this term:	**1 Analysing and displaying data** 1.1 Mode, median and range 1.2 Displaying data 1.3 Grouping data 1.4 Averages and comparing data 1.5 Line graphs and more bar charts 1.6 Spreadsheets **2 Number skills** 2.1 Mental maths 2.2 Addition and subtraction 2.3 Multiplication 2.4 Division 2.5 Finance: Time and money 2.6 Negative numbers 2.7 Factors, multiples and primes 2.8 Square and triangle numbers	**3 Expressions, functions and formulae** 3.1 Functions 3.2 Simplifying expressions 1 3.3 Simplifying expressions 2 3.4 Writing expressions 3.5 STEM: Substituting into formulae 3.6 Writing formulae **4 Decimals and measures** 4.1 Decimals and rounding 4.2 Length, mass and capacity 4.3 Scales and coordinates 4.4 Working with decimals mentally 4.5 Working with decimals 4.6 Perimeter 4.7 Area 4.8 STEM: More units	**5 Fractions** 5.1 Comparing fractions 5.2 Simplifying fractions 5.3 Working with fractions 5.4 Fractions and decimals 5.5 Understanding percentages 5.6 Percentages of amounts **6 Probability** 6.1 The language of probability 6.2 Calculating probability 6.3 More probability calculations 6.4 Experimental probability 6.5 FINANCE: Expected outcomes	**7 Ratio and proportion** 7.1 Direct proportion 7.2 Writing ratios 7.3 Using ratios 7.4 Scales and measures 7.5 Proportions and fractions 7.6 Proportions and percentages	**8 Lines and angles** 8.1 Lines, angles and triangles 8.2 Estimating, measuring and drawing angles 8.3 Drawing triangles accurately 8.4 STEM: Calculating angles 8.5 Angles in a triangle 8.6 Quadrilaterals **9 Sequences and graphs** 9.1 Sequences 9.2 Pattern sequences 9.3 Coordinates 9.4 Extending sequences 9.5 Straight-line graphs 9.6 Position-to-term rules	**10 Transformations** 10.1 Congruency and enlargements 10.2 Symmetry 10.3 Reflection 10.4 Rotation 10.5 Translations and combined transformations
Assessment will be =	Pre and Post Topic tests. Half term test -45min 9 question written test out of 40 marks	Pre and Post Topic tests. End of term test –45min 17 question written test out of 53 marks	Pre and Post Topic tests. Half term test –45min 11 question written test out of 39 marks	Pre and Post Topic tests. End of term test –45min 19 question written test out of 58 marks	Pre and Post Topic tests. Half term test –45min 14 question written test out of 43 marks	Pre and Post Topic tests. End of year exam. Two 1 hour papers Non-calculator and calculator totalling out of 100 marks
Revision & resources	Link to Frog for resources/websites to revise websites. online– Mymaths, Pixl maths app, samlearning corbettmaths. Mathsgenie,. mathswatch, all have online activities with worksheets paired for self assessment					
Further Reading	Names of texts Pearsons- KS3 Maths Progress Theta one http://www.pearsonschoolsandfecolleges.co.uk/Secondary/Mathematics-support/Schemes-of-Work/GCSE-Schemes-of-Work.aspx 2 year KS3 3 year GCSE Scheme of Work, middle attainer					

Assessment Cycle Year 7 **Set 3** 2016-17   Subject -MATHEMATICS

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Key Learning covered this term:	**1 Analysing and displaying data** 1.1 Tables and pictograms 1.2 Bar charts 1.3 Grouped data 1.4 Mode and modal class 1.5 Range and median 1.6 Mean **2 Calculating** 2.1 Adding 2.2 Subtracting 2.3 Multiplying 2.4 Dividing 2.5 Multiplying and dividing by 10, 100 and 1000 2.6 Using the four operations 2.7 Positive and negative numbers	**3 Expressions, functions and formulae** 3.1 Using functions 3.2 Function machines 3.3 Simplify expressions 3.4 Writing expressions 3.5 STEM: Using formulae 3.6 Writing formulae **4 Graphs** 4.1 Real-life graphs 4.2 Coordinates 4.3 Graphs of functions 4.4 STEM: Scientific graphs	**5 Factors and multiples** 5.1 Number rules and relationships 5.2 Multiples 5.3 Multiplication 5.4 Division 5.5 Solving problems 5.6 Factors and primes 5.7 Common factors and multiples **6 Decimals and measures** 6.1 Estimates and measures 6.2 Decimal numbers 6.3 Metric units 6.4 Adding and subtracting decimals 6.5 Rounding 6.6 Multiplying and dividing decimals 6.7 FINANCE: Calculating with money	**7 Angles and lines** 7.1 Right angles and lines 7.2 Measuring angles 1 7.3 Measuring angles 2 7.4 Drawing and estimating angles 7.5 Putting angles together	**8 Measuring and shapes** 8.1 Shapes 8.2 Symmetry in shapes 8.3 More symmetry 8.4 Regular polygons 8.5 Perimeter **9 Fractions, decimals and percentages** 9.1 Comparing fractions 9.2 Equivalent fractions 9.3 Calculating with fractions 9.4 Adding and subtracting fractions 9.5 Introducing percentages 9.6 FINANCE: Finding percentages	**10 Transformations** 10.1 Reflection 10.2 Translation 10.3 Rotation 10.4 STEM: Congruency **Pi 3:** 10.1 Quadrilaterals
Assessment will be =	Pre and Post Topic tests. Half term test -45min 12 question written test out of 34 marks	Pre and Post Topic tests. End of term test –45min 18 question written test out of 48 marks	Pre and Post Topic tests. Half term test –45min 13 question written test out of 41 marks	Pre and Post Topic tests. End of term test –45min 21 question written test out of 52 marks	Pre and Post Topic tests. Half term test –45min 14 question written test out of 39 marks	Pre and Post Topic tests. End of year exam. Two 1 hour papers Non-calculator and calculator totalling out of 100 marks
Revision & resources	Link to Frog for resources/websites to revise websites. online– Mymaths, Pixl maths app, samlearning corbettmaths. Mathsgenie,. mathswatch, all have online activities with worksheets paired for self assessment					
Further Reading	Names of texts Pearsons- KS3 Maths Progress Delta one http://www.pearsonschoolsandfecolleges.co.uk/Secondary/Mathematics-support/Schemes-of-Work/GCSE-Schemes-of-Work.aspx 2 year KS3 3 year GCSE Scheme of Work, low attainer					
Revision & How to prepare	Link to Frog for resources/websites to revise websites. online– Mymaths, Pixl maths app, samlearning corbettmaths. Mathsgenie,. mathswatch, all have online activities with worksheets paired for self assessment					
Further Reading	Names of texts Pearsons- GCSE 9-1 Foundation http://www.pearsonschoolsandfecolleges.co.uk/Secondary/Mathematics-support/Schemes-of-Work/GCSE-Schemes-of-Work.aspx 2 year GCSE 9-1 Scheme of Work, foundation GCSE					