

## Year 8: 2015 - 2016

Overview	Strands	Towards Higher GCSE	Towards Higher/Foundation GCSE	Towards Foundation GCSE
<b>8N1 About calculation</b>	N1 Calculating N2 Using our number system N3 Accuracy N7 Number properties	N1.2 Multiplying whole numbers N2.2 Writing and ordering decimals N2.3 Multiplying and dividing by powers of 10 N3.2 Rounding larger numbers N7.2 Factors, primes and powers	N1.2 Multiplying whole numbers N2.2 Writing and ordering decimals <b>N2.3 Multiplying and dividing by powers of 10</b> N3.2 Rounding larger numbers <b>N7.2 Factors, primes and powers</b>	N1.2 Multiplying whole numbers N2.2 Writing and ordering decimals <b>N2.3 Multiplying and dividing by powers of 10</b> N3.2 Rounding larger numbers <b>N7.2 Factors, primes and powers</b>
<b>8A1 Sequences</b>	N1 Calculating A2 Sequences N1 Calculating A2 Sequences	<b>N1.7 Order of operations BIDMAS</b> (A2.1 What is a sequence) covered in year 7 N1.5 Adding and subtracting negative numbers N1.6 Multiplying and dividing negative numbers A2.2 Generating sequences	<b>N1.7 Order of operations BIDMAS</b> (A2.1 What is a sequence) covered in year 7 <b>N1.5 Adding and subtracting negative numbers</b> <b>N1.6 Multiplying and dividing negative numbers</b> <b>A2.2 Generating sequences</b>	<b>(A2.1 What is a sequence) covered in year 7</b> N1.5 Adding and subtracting negative numbers N1.6 Multiplying and dividing negative numbers A2.2 Generating sequences
<b>8G1 Properties of shapes</b>	GM2 Properties of shapes GM2 Properties of shapes GM2 Properties of shapes	GM2.3 Angle facts GM2.5 Angles in triangles and quadrilaterals <b>GM2.6 Types of quadrilateral</b> <b>GM2.7 Angles and parallel lines</b>	GM2.3 Angle facts GM2.5 Angles in triangles and quadrilaterals GM2.6 Types of quadrilateral GM2.7 Angles and parallel lines	GM2.3 Angle facts GM2.5 Angles in triangles and quadrilaterals GM2.6 Types of quadrilateral GM2.7 Angles and parallel lines
<b>Problem solving</b>	Problem solving	within number, sequences and shape	within number, sequences and shape	within number, sequences and shape
<b>Autumn half term</b>				
<b>8A2 Using letters</b>	A1 Starting algebra A1 Starting algebra A1 Starting algebra	A1.1 Making and using word formulae (A1.2 Using letters) to support A1.3 if required. A1.3 Combining variables <b>A1.5 Setting up and solving simple equations</b> <b>A1.6 Using brackets</b>	A1.1 Making and using word formulae (A1.2 Using letters) to support A1.3 if required. <b>A1.3 Combining variables</b> A1.5 Setting up and solving simple equations A1.6 Using brackets	A1.1 Making and using word formulae (A1.2 Using letters) to support A1.3 if required. A1.3 Combining variables A1.5 Setting up and solving simple equations A1.6 Using brackets
<b>8S1 Statistical investigation</b>	SP2 Statistical diagrams SP2 Statistical diagrams SP1 Statistical measures SP1.2 Using mean, median, mode and range SP3 Collecting data SP3 Statistical diagrams	SP2.3 Vertical line charts SP2.4 Pie charts SP2.2 Stem and leaf diagrams SP1.1 Mode, median and range SP1.2 Using mean, median, mode and range SP3.1 Collecting data <b>SP2.6 Scatter diagrams</b>	SP2.3 Vertical line charts SP2.4 Pie charts <b>SP2.2 Stem and leaf diagrams</b> <b>SP1.1 Mode, median and range</b> <b>SP1.2 Using mean, median, mode and range</b> <b>SP3.1 Collecting data</b> SP2.6 Scatter diagrams	SP2.3 Vertical line charts SP2.4 Pie charts SP2.2 Stem and leaf diagrams SP1.1 Mode, median and range SP1.2 Using mean, median, mode and range SP3.1 Collecting data SP2.6 Scatter diagrams
<b>8N2 Fractions</b>	N4 Fractions N1 Calculating N4 Fractions N7 Number properties N4 Fractions	N4.2 Finding equivalent fractions N1.4 Dividing whole numbers N4.3 Multiplying fractions N7.3 Divisibility tests <b>N4.4 Adding and subtracting fractions</b> <b>N4.5 Working with mixed numbers</b> <b>N4.6 Dividing fractions</b>	N4.2 Finding equivalent fractions N1.4 Dividing whole numbers <b>N4.3 Multiplying fractions</b> <b>N7.3 Divisibility tests</b> N4.4 Adding and subtracting fractions N4.5 Working with mixed numbers N4.6 Dividing fractions	<b>N4.2 Finding equivalent fractions</b> <b>N1.4 Dividing whole numbers</b> N4.3 Multiplying fractions N7.3 Divisibility tests N4.4 Adding and subtracting fractions N4.5 Working with mixed numbers N4.6 Dividing fractions
<b>8GM2 Forming shapes</b>	GM4 Geometric construction GM2 Properties of shapes GM6 Three-dimensional shapes GM4 Geometric construction	GM4.2 Constructions with a ruler and protractor GM2.4 Rotational symmetry GM2.6 Types of quadrilateral GM6.1 Properties of 3-D shapes <b>GM4.3 Constructions with a pair of compasses</b> GM6.2 Understanding nets	GM4.2 Constructions with a ruler and protractor GM2.4 Rotational symmetry <b>GM2.6 Types of quadrilateral</b> <b>GM6.1 Properties of 3-D shapes</b> GM4.3 Constructions with a pair of compasses GM6.2 Understanding nets	GM4.2 Constructions with a ruler and protractor GM2.4 Rotational symmetry GM2.6 Types of quadrilateral <b>GM6.1 Properties of 3-D shapes</b> GM4.3 Constructions with a pair of compasses GM6.2 Understanding nets
<b>Christmas</b>				
<b>8A3 Algebra</b>	A1 Starting algebra A1 Starting algebra A3 Functions and graphs A3 Functions and graphs	A1.2 Using letters A1.4 Working with formulae A3.1 Real life graphs <b>A3.2 Plotting graphs of linear functions</b>	A1.2 Using letters <b>A1.4 Working with formulae</b> <b>A3.1 Real life graphs</b> A3.2 Plotting graphs of linear functions	A1.2 Using letters A1.4 Working with formulae A3.1 Real life graphs A3.2 Plotting graphs of linear functions
<b>8N3 Calculating</b>	N1 Calculating N1 Calculating N1 Calculating	N1.3 Adding and subtracting decimals N1.7 Order of operations BIDMAS <b>N1.8 Multiplying decimals</b> <b>N1.9 Dividing decimals</b>	N1.3 Adding and subtracting decimals <b>N1.7 Order of operations BIDMAS</b> N1.8 Multiplying decimals N1.9 Dividing decimals	<b>N1.3 Adding and subtracting decimals</b> N1.7 Order of operations BIDMAS N1.8 Multiplying decimals N1.9 Dividing decimals
<b>8GM3 Measures</b>	GM1 Units and scales N3 Accuracy GM1 Units and scales GM3 Measuring shapes	GM1.5 Interpreting scales N3.3 Rounding decimals to the nearest integer <b>GM1.8 Bearings</b> <b>GM3.3 Circumference</b>	GM1.5 Interpreting scales N3.3 Rounding decimals to the nearest integer <b>GM1.8 Bearings</b> GM3.3 Circumference	GM1.5 Interpreting scales <b>N3.3 Rounding decimals to the nearest integer</b> GM1.8 Bearings GM3.3 Circumference
<b>Spring half term</b>				
<b>8A4 Manipulating algebra</b>	A1 Starting algebra A1 Starting algebra A1 Starting algebra A1 Starting algebra	A1.3 Combining variables A1.5 Setting up and solving simple equations A1.6 Using brackets <b>A1.7 Working with more complex equations</b> <b>A1.8 Solving equations with brackets</b>	A1.3 Combining variables <b>A1.5 Setting up and solving simple equations</b> <b>A1.6 Using brackets</b> A1.7 Working with more complex equations A1.8 Solving equations with brackets	A1.3 Combining variables A1.5 Setting up and solving simple equations A1.6 Using brackets A1.7 Working with more complex equations A1.8 Solving equations with brackets
<b>8S2 Probability</b>	N4 Fractions SP4 Probability SP4 Probability SP4 Probability	(N4.2 Finding equivalent fractions to support probability) SP4.1 Introduction to Probability SP4.2 Single event probability <b>SP4.3 Combined events</b>	(N4.2 Finding equivalent fractions to support probability) <b>SP4.1 Introduction to Probability</b> <b>SP4.2 Single event probability</b> SP4.3 Combined events	(N4.2 Finding equivalent fractions to support probability) SP4.1 Introduction to Probability SP4.2 Single event probability SP4.3 Combined events
<b>8N4 Proportion</b>	GM1 Units and scales N2 Using our number system N6 Ratio and proportion GM1 Units and scales	GM1.6 The metric system N2.5 Using the number system effectively <b>N6.1 Understanding ratio notation</b> <b>N6.2 Sharing in a given ratio</b> <b>N6.3 Working with proportional quantities</b> <b>GM1.7 Metric-imperial conversions</b>	GM1.6 The metric system <b>N2.5 Using the number system effectively</b> <b>N6.1 Understanding ratio notation</b> N6.2 Sharing in a given ratio N6.3 Working with proportional quantities GM1.7 Metric-imperial conversions	GM1.6 The metric system N2.5 Using the number system effectively <b>N6.1 Understanding ratio notation</b> N6.2 Sharing in a given ratio N6.3 Working with proportional quantities GM1.7 Metric-imperial conversions
<b>8GM4 Transformations</b>	GM5 Transformations GM5 Transformations GM1 Units and scales GM5 Transformations	GM5.2 Cartesian coordinates in four quadrants GM5.3 Translation GM5.5 Rotation <b>GM1.9 Scale drawing</b> GM5.6 Enlargement	GM5.2 Cartesian coordinates in four quadrants GM5.3 Translation <b>GM5.5 Rotation</b> GM1.9 Scale drawing GM5.6 Enlargement	GM5.2 Cartesian coordinates in four quadrants GM5.3 Translation GM5.5 Rotation GM1.9 Scale drawing GM5.6 Enlargement
<b>Easter</b>				
<b>8N5 Indices</b>	N7 Number properties N7 Number properties	(N7.2 Factors, primes and powers) <b>N7.4 Index notation</b>	(N7.2 Factors, primes and powers) <b>N7.4 Index notation</b>	(N7.2 Factors, primes and powers) <b>N7.4 Index notation</b>
<b>8A5 Sequences</b>	N1 Calculating A1 Starting algebra A2 Sequences A2 Sequences A2 Sequences	N1.5 Adding and subtracting negative numbers A1.4 Working with formulae A2.2 Generating sequences A2.3 Linear sequences <b>A2.4 Special sequences</b>	N1.5 Adding and subtracting negative numbers A1.4 Working with formulae A2.2 Generating sequences <b>A2.3 Linear sequences</b> <b>A2.4 Special sequences</b>	N1.5 Adding and subtracting negative numbers A1.4 Working with formulae A2.2 Generating sequences A2.3 Linear sequences A2.4 Special sequences
<b>8GM5 Two dimensions and beyond</b>	GM3 Measuring shapes GM6 Three-dimensional shapes GM3 Measuring shapes GM6 Three-dimensional shapes GM6 Three-dimensional shapes	GM3.1 Understanding area GM6.1 Properties of 3-D shapes GM3.2 Finding area and perimeter GM6.2 Understanding nets <b>GM6.3 Volume and surface area of cuboids</b>	GM3.1 Understanding area GM6.1 Properties of 3-D shapes <b>GM3.2 Finding area and perimeter</b> <b>GM6.2 Understanding nets</b> <b>GM6.3 Volume and surface area of cuboids</b>	GM3.1 Understanding area GM6.1 Properties of 3-D shapes GM3.2 Finding area and perimeter GM6.2 Understanding nets GM6.3 Volume and surface area of cuboids
<b>Summer half term</b>				
<b>8A6 Equations</b>	A1 Starting algebra A4 Algebraic methods	A1.5 Setting up and solving simple equations <b>A4.1 Trial and improvement</b>	A1.5 Setting up and solving simple equations <b>A4.1 Trial and improvement</b>	A1.5 Setting up and solving simple equations <b>A4.1 Trial and improvement</b>
<b>8S3 A statistical survey</b>	SP1 Statistical measures SP2 Statistical diagrams SP3 Collecting data SP1 Statistical measures SP3 Collecting data SP1 Statistical measures SP2 Statistical diagrams	SP1.1 Mode, median and range SP1.2 Using mean, median, mode and range SP2.2 Stem and leaf diagrams SP3.1 Collecting data SP1.3 Using frequency tables <b>S3.2 Designing a questionnaire</b> <b>S1.4 Using grouped frequency tables</b> <b>S2.5 Displaying grouped data</b>	SP1.1 Mode, median and range SP1.2 Using mean, median, mode and range SP2.2 Stem and leaf diagrams <b>SP3.1 Collecting data</b> <b>SP1.3 Using frequency tables</b> S3.2 Designing a questionnaire S1.4 Using grouped frequency tables S2.5 Displaying grouped data	SP1.1 Mode, median and range SP1.2 Using mean, median, mode and range <b>SP2.2 Stem and leaf diagrams</b> SP3.1 Collecting data SP1.3 Using frequency tables S3.2 Designing a questionnaire S1.4 Using grouped frequency tables S2.5 Displaying grouped data
<b>8N6 Percentages</b>	N5 Percentages N3 Accuracy N5 Percentages	N5.1 Understanding and using percentages N5.2 Calculating percentages of quantities N3.4 Rounding decimals N5.3 Converting between fractions decimals and percentages <b>N5.4 Applying percentage increases and decreases to amounts</b>	N5.1 Understanding and using percentages N5.2 Calculating percentages of quantities <b>N3.4 Rounding decimals</b> <b>N5.3 Converting between fractions decimals and percentages</b> N5.4 Applying percentage increases and decreases to amounts	N5.1 Understanding and using percentages N5.2 Calculating percentages of quantities N3.4 Rounding decimals N5.3 Converting between fractions decimals and percentages N5.4 Applying percentage increases and decreases to amounts
<b>8GM6 Three dimensions</b>	GM2 Properties of shapes GM6 Three-dimensional shapes GM6 Three-dimensional shapes GM6 Three-dimensional shapes	GM2.4 Rotational symmetry GM6.2 Understanding nets GM6.3 Volume and surface area of cuboids <b>GM6.4 2-D representations of 3-D shapes</b>	GM2.4 Rotational symmetry GM6.2 Understanding nets <b>GM6.3 Volume and surface area of cuboids</b> GM6.4 2-D representations of 3-D shapes	GM2.4 Rotational symmetry GM6.2 Understanding nets GM6.3 Volume and surface area of cuboids GM6.4 2-D representations of 3-D shapes