



Maths

Year 7-11 Subject Learning Scheme 2017-2018



Year 7 KS3	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<p>Key Learning and Activities.</p> <ul style="list-style-type: none"> • knowledge • skills • experiences 	<p>Number</p> <ul style="list-style-type: none"> - Number and the Number System - Calculating - Calculating: Division <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Multiply (divide) numbers with up to three decimal places by 10 (100, 1000) • Use long division to find the remainder at each step of the division 	<p>Number</p> <p>Shape, Space and Measure</p> <p>Algebra</p> <ul style="list-style-type: none"> - Visualising and Constructing - Investigating properties of shape - Algebraic proficiency: using formulae <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Know the names of parts of circles • Know that the diameter is twice the radius • Know the angle sum of a triangle • Use the angle sum of a triangle to find missing angles • Find the missing angle in an isosceles triangle when only one angle is known 	<p>Number</p> <p>Algebra</p> <ul style="list-style-type: none"> - Exploring fractions, decimals and percentages - Proportional reasoning - Pattern sniffing <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Know standard fraction / decimal equivalences (e.g. $\frac{1}{2} = 0.5$, $\frac{1}{4} = 0.25$, $\frac{1}{10} = 0.1$) • Work out the decimal equivalents of fifths, eighths and tenths • Know standard fraction / decimal / percentage equivalences (e.g. 10%, 25%, 50%, 75%) • Work out the percentage equivalents of fifths, eighths and tenths • Simplify a fraction 	<p>Shape</p> <p>Number</p> <ul style="list-style-type: none"> - Measuring space - Investigating angles - Calculating fractions, decimals and percentages <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Convert between Imperial units; e.g. feet and inches, pounds and ounces, pints and gallons (including miles and kilometres) • Know that vertically opposite angles are equal • Identify angles that meet at a point 	<p>Number</p> <p>Algebra</p> <ul style="list-style-type: none"> - Calculating fractions, decimals and percentages - Solving equations and inequalities - Calculating space - Checking, approximating and estimating <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Know that the area of a parallelogram is given by the formula $\text{area} = \text{base} \times \text{height}$ • Know that the area of a triangle is given by the formula: $\text{area} = \frac{1}{2} \times \text{base} \times \text{height}$ $\text{height} \div 2 = \frac{bh}{2}$ • Choose appropriate units of volume • Calculate the volume of a cuboid 	<p>Shape, Space and Measure</p> <p>Handling Data</p> <ul style="list-style-type: none"> - Mathematical Movement - Presentation of data - Measuring data <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Construct a 2-D coordinate grid (all four quadrants) • Use coordinates to describe the position of a point in all four quadrants • Use coordinates to write the position of a point in all four quadrants • Use coordinates to plot the position of a point in any of the four quadrants

- Know the angle sum of a quadrilateral
- Use the angle sum of a quadrilateral to find missing angles
- Recognise a simple formula written in words
- Substitute numbers into a one-step formula written in words
- Substitute numbers into a two-step formula written in words

- Write a fraction in its lowest terms
- Confirm that a fraction is written in its lowest terms
- Identify when a comparison problem can be solved using multiplication
- Identify when a comparison problem can be solved using division
- Identify when a comparison problem requires both division and multiplication
- Find the value of a single item in a comparison problem
- Use the value of a single item to solve a comparison problem
- Describe a number sequence
- Generate a linear sequence from its description

- Identify angles that meet at a point on a line
- Add (subtract) fractions with different denominators
- Add (subtract) a mixed number and a fraction, including with different denominators
- Add (subtract) mixed numbers, including with different denominators
- Multiply a proper fraction by a proper fraction
- Use non-calculator methods to find a percentage of an amount
- Use decimal or fraction equivalents to find a **percentage of an amount**

				<p>where appropriate</p> <ul style="list-style-type: none"> Solve problems involving the use of percentages to make comparisons 		
<p>Key Activities promoting SMSC and British Values.</p>	<p>CULTURAL Look at the work of Christian Goldbach (1690 – 1764), German mathematician and historian and his theory of prime numbers CULTURAL Try the Chinese lattice method for multiplication</p>	<p>SPIRITUAL Find out and think about the importance of angles within structural engineering by researching well known buildings and bridges</p>	<p>SPIRITUAL Encourage students to generate terms of the Fibonnaci sequence and discuss its occurrence in nature</p>	<p>SOCIAL Use percentage increase and decrease in a shopping context CULTURAL Investigate Egyptian fractions</p>	<p>SOCIAL Plan how furniture will fit into a bedroom by making scale drawings MORAL Manage a budget to buy essentials</p>	<p>CULTURAL Apply mathematics in a creative context, explore the artwork of M.C. Escher, in particular his use of tessellation patterns and transformations</p>
<p>Key Homework</p>	<p>Set w/c 3rd October Due w/c 10th October</p>	<p>Set w/c 28th November Due w/c 5th December</p>	<p>Set w/c 23rd January Due w/c 30th January</p>	<p>Set w/c 13th March Due w/c 20th March</p>	<p>Set w/c 15th May Due w/c 22nd May</p>	<p>N/A</p>
<p>Key Assessment incl. dates</p>	<p>N/A</p>	<p>w/c 12th December</p>	<p>N/A</p>	<p>w/c 20th March</p>	<p>WHOLE SCHOOL EXAMS (DATE TBC)</p>	<p>N/A</p>

Year 8 KS3	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<p>Key Learning and Activities</p> <ul style="list-style-type: none"> • knowledge • skills • experiences 	<p>Number</p> <ul style="list-style-type: none"> - Number and the Number System - Counting and comparing - Calculating <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Understand the use of notation for powers • Know the meaning of the square root symbol ($\sqrt{\quad}$) Use a scientific calculator to calculate powers and roots • Use knowledge of place value to multiply with decimals • Use knowledge of place value to divide a decimal • Use knowledge of place value to divide by a decimal • Know the order of operations for the four operations • Identify the first 10 triangular numbers • Know the first 6 cube numbers • Know the symbols =, \neq, $>$, \geq, $<$, \leq 	<p>Number Shape, Space and Measure Algebra</p> <ul style="list-style-type: none"> - Visualising and Constructing - Investigating properties of shape - Algebraic proficiency: tinkering - Exploring fractions, decimals and percentages <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Use notation for parallel lines • Use AB notation for describing lengths • Use $\angle ABC$ notation for describing angles • Simplify an expression by collecting like terms • Know how to multiply a (positive) single term 	<p>Number Algebra Shape, Space and Measure</p> <ul style="list-style-type: none"> - Proportional reasoning - Pattern sniffing - Measuring space - Investigating angles <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Convert between different units of measurement • State a ratio of measurements in the same units • Simplify a ratio by cancelling common factors • Find the term-to-term rule for a sequence • Describe a number sequence • Convert fluently between metric units of length • Know that angles in a triangles total 180° Find missing angles in triangles 	<p>Number Shape, Space and Measure</p> <ul style="list-style-type: none"> - Calculating fractions, decimals and percentages - Solving equations and inequalities <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Apply addition to proper fractions, improper fractions and mixed numbers • Apply subtraction to proper fractions, improper fractions and mixed numbers • Multiply proper and improper fractions • Multiply mixed numbers • Divide a proper fraction by a proper fraction • Apply division to improper fractions and mixed numbers 	<p>Number Shape, Space and Measure</p> <ul style="list-style-type: none"> - Calculating space - Checking, approximating and estimating - Mathematical movement <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Understand the meaning of surface area • Find the surface area of cuboids (including cubes) when lengths are known • Use estimation to predict the order of magnitude of the solution to a (decimal) calculation • Estimate calculations by rounding numbers to one significant figure • Use inverse operations to check solutions to calculations • Write the equation of a line parallel to 	<p>Handling Data</p> <ul style="list-style-type: none"> - Presentation of data - Measuring data <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Construct pie charts when the total frequency is not a factor of 360 • Find the mode of set of data • Find the median of a set of data • Find the median of a set of data when there are an even number of numbers in the data set • Calculate the range of a set of data • <u>Know how to work out measures of central tendency</u>

	<ul style="list-style-type: none"> • Know the order of operations for the four operations including brackets 	<p>over a bracket (the distributive law)</p> <ul style="list-style-type: none"> • Substitute positive numbers into expressions and formulae • Write a percentage as a fraction Write a quantity as a percentage of another • Know the meaning of faces, edges and vertices • Recall the names and shapes of special triangles and quadrilaterals • Know basic algebraic notation (the rules of algebra) 	<ul style="list-style-type: none"> • Find missing angles in isosceles triangles • Explain reasoning using vocabulary of angles 	<ul style="list-style-type: none"> • Compare two quantities using percentages • Know that percentage change = actual change ÷ original amount • Calculate the percentage change in a given situation, including percentage increase / decrease • Solve one-step equations when the solution is a whole number (fraction) • Solve two-step equations (including the use of brackets) when the solution is a whole number • Solve two-step equations (including the use of brackets) when the solution is a fraction • Solve three-step equations (including the 	<p>the x-axis or the y-axis</p> <ul style="list-style-type: none"> • Draw a line parallel to the x-axis or the y-axis given its equation • Identify the lines $y = x$ and $y = -x$ • Draw the lines $y = x$ and $y = -x$ • Know that area of a rectangle = $L \times W$ • Know that area of a triangle = $b \times h \div 2$ • Know that area of a parallelogram = $b \times h$ • Know that volume of a cuboid = $L \times W \times D$ 	
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				<p>use of brackets) when the solution is a whole number</p> <ul style="list-style-type: none"> • Solve three-step equations (including the use of brackets) when the solution is a fraction • Check the solution to an equation by substitution 		
<p>Key Activities promoting SMSC and British Values.</p>	<p>CULTURAL Appreciate that mathematics, its language and symbols have developed from many different cultures around the world: e.g. Egyptian, Indian, Islamic, Greek and Russian roots</p>	<p>MORAL Answer questions beginning 'Would you rather...?' when practising percentage questions, e.g. Be given homework by 70% of 120 teachers Or 65% of 140 teachers ?</p>	<p>SPIRITUAL Encourage students to generate terms of the Fibonacci sequence and discuss its occurrence in nature</p> <p>CULTURAL Look at the history of measure and find out which units of measure are used worldwide</p>	<p>SOCIAL Use percentage increase and decrease in a shopping context</p> <p>CULTURAL Investigate Egyptian fractions</p>	<p>CULTURAL Estimate the population of different countries, towns and cities</p> <p>CULTURAL Explore Rangoli patterns when learning about symmetry</p>	<p>SPIRITUAL Interpret pie charts showing comparative data</p> <p>SPIRITUAL Compare averages on data collected amongst pupils regarding height, gender and reaction time and discuss</p>
<p>Key Homework</p>	<p>Set w/c 3rd October Due w/c 10th October</p>	<p>Set w/c 28th November Due w/c 5th December</p>	<p>Set w/c 23rd January Due w/c 30th January</p>	<p>Set w/c 13th March Due w/c 20th March</p>	<p>Set w/c 15th May Due w/c 22nd May</p>	<p>N/A</p>
<p>Key Assessment incl. dates</p>	<p>N/A</p>	<p>w/c 12th December</p>	<p>N/A</p>	<p>Wc 20th March</p>	<p>WHOLE SCHOOL EXAMS (DATE TBC)</p>	<p>N/A</p>

Year 9 KS3	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<p>Key Learning</p> <ul style="list-style-type: none"> • knowledge • skills • experiences 	<p>Number</p> <ul style="list-style-type: none"> - Number and the Number System - Calculating - Visualising and Constructing <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Write a number as a product of its prime factors • Round to significant figures • Know the order of operations including powers • Enter negative numbers into a calculator • Know that $a^0 = 1$ • <u>Apply the four operations with negative numbers</u> • <u>Convert numbers into standard form and vice versa</u> • <u>Apply the multiplication, division and power laws of indices</u> 	<p>Number Shape, Space & Measure Algebra</p> <ul style="list-style-type: none"> - Understanding Risk 1 - Algebraic proficiency: tinkering - Exploring fractions, decimals and percentages <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Know that probability is measured on a 0-1 scale • Know that the sum of all probabilities for a single event is 1 • Know percentage and decimal equivalents for fractions with a denominator of 3, 5, 8 and 10 • <u>Convert between terminating</u> 	<p>Number Algebra Shape, Space & Measure</p> <ul style="list-style-type: none"> - Proportional reasoning - Pattern sniffing - Investigating Angles <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Measure and write bearings • Identify alternate angles • Identify corresponding angles • Find the angle sum of any polygon • <u>Find a relevant multiplier when solving problems involving proportion</u> • <u>Solve problems involving percentage change, including original value problems</u> • <u>Find and use the nth term for a linear sequence</u> 	<p>Number Algebra</p> <ul style="list-style-type: none"> - Calculating fractions, decimals and percentages - Solving equations and inequalities <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Solve linear equations with unknowns on both sides 	<p>Number Shape, Space & Measure</p> <ul style="list-style-type: none"> - Calculating Space - Algebraic proficiency: Visualising - Understanding Risk 2 <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Know that circumference = $2\pi r = \pi d$ • Know that area of a circle = πr^2 • Know that volume of prism = area of cross-section \times length • Know the characteristic shape of a graph of a quadratic function • Plot and interpret graphs of linear functions • Apply the formulae for circumference and area of a circle 	<p>Handling Data</p> <ul style="list-style-type: none"> - Presentation of data - Measuring data <p>Pupils will be able to:</p> <ul style="list-style-type: none"> • Use the midpoints of groups to estimate the mean of a set of grouped data • Calculate theoretical probabilities for single events

		<u>decimals and fractions</u> <ul style="list-style-type: none"> • <u>Factorise an expression by taking out common factors</u> • <u>Change the subject of a formula when two steps are required</u> 				
Key Activities promoting SMSC and British Values.	<p>CULTURAL Order and compare numbers with up to 3 decimal places (compare 10 different countries and their GDP)</p> <p>MORAL Read and Write numbers from 0.001 to 1,000,000 (what would you spend £1,000,000 on?)</p> <p>MORAL Unwise Landlady (101 Red Hot Starters)</p> <p>CULTURAL Eastern Maths and the invention of zero and negative numbers (BBC Clips)</p>	<p>CULTURAL The history of Algebra (look at some famous mathematicians and what they did. Euclid, Pythagoras, The Babylonians etc)</p> <p>MORAL Look at the fairness of someone receiving $\frac{1}{2}$ and $\frac{1}{4}$ of an amount</p> <p>MORAL Look at the fairness of 'play your cards right' (pros and cons of gambling)</p>	<p>CULTURAL Know prefixes of polygons and their history (ie where does the prefix OCTagon originate from?)</p> <p>MORAL Dividing ratios (is it fair that someone should get more money based on age?)</p> <p>SOCIAL Best buy (why is it important to find the best buys when you have your own house?)</p>	<p>CULTURAL Study simple fractions of pie charts on money spent on non-essentials compared with food in a number of countries</p>	<p>SOCIAL Activities that involve group work and problem solving</p> <p>CULTURAL Origami (look at the origins and make 3-D solids using Origami) Euclid's Formula that links vertices, edges and faces</p>	<p>CULTURAL Compare averages on data of different countries and discuss</p>

	SPIRITUAL When studying standard form look at the distance from earth to the moon etc	SOCIAL Discuss the vocabulary of probability and their meanings				
Key Homework	Set w/c 3 rd October Due w/c 10 th October	Set w/c 28 th November Due w/c 5 th December	Set w/c 23 rd January Due w/c 30 th January	Set w/c 13 th March Due w/c 20 th March	Set w/c 15 th May Due w/c 22 nd May	N/A
Key Assessment incl. dates	N/A	w/c 12 th December	N/A	w/c 20 th March	WHOLE SCHOOL EXAMS (DATE TBC)	N/A

Year 10 KS4	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Key Learning <ul style="list-style-type: none"> • knowledge • skills • experiences 	Number Algebra <ul style="list-style-type: none"> - Calculating - Visualising and Constructing Pupils will be able to: <ul style="list-style-type: none"> • Interpret the display on a scientific calculator when working with standard form • Calculate with roots and integer indices • Use ruler and compass methods to construct the perpendicular bisector of a line 	Number Algebra <ul style="list-style-type: none"> - Algebraic proficiency: Tinkering -Proportional reasoning Pupils will be able to: <ul style="list-style-type: none"> • Know the definition of speed • Know the definition of density • Know the definition of pressure • Know the difference between direct and inverse proportion 	Algebra <ul style="list-style-type: none"> - Pattern sniffing - Solving equations and Inequalities 1 Pupils will be able to: <ul style="list-style-type: none"> • Represent an inequality on a number line • Find the nth term of a quadratic sequence 	Shape, Space & Measure <ul style="list-style-type: none"> - Calculating space - Conjecturing Pupils will be able to: <ul style="list-style-type: none"> • Know Pythagoras' Theorem • Know the definitions of arc, sector, tangent and segment • Know the conditions for congruent triangles • Solve problems involving similar shapes 	Algebra <ul style="list-style-type: none"> - Algebraic Proficiency: Visualising - Solving Equations and Inequalities 2 Pupils will be able to: <ul style="list-style-type: none"> • Know that the point of intersection of two lines represents the solution to the corresponding simultaneous equations • Know the characteristic 	Handling Data <ul style="list-style-type: none"> - Understanding Risk - Presentation of Data Pupils will be able to: <ul style="list-style-type: none"> • Use tree diagrams to list outcomes

	segment and to bisect an angle	<ul style="list-style-type: none"> • Manipulate algebraic expressions by expanding the product of two binomials • Manipulate algebraic expressions by factorising a quadratic expression of the form $x^2 + bx + c$ • Change freely between compound units 		<ul style="list-style-type: none"> • Calculate exactly with multiples of π • Apply Pythagoras' Theorem in two dimensions • Use geometrical reasoning to construct simple proofs 	<p>shape of the graph of a cubic function</p> <ul style="list-style-type: none"> • Know the characteristic shape of the graph of a reciprocal function • Understand and use the gradient of a straight line to solve problems • Solve two linear simultaneous equations algebraically and graphically • Plot and interpret graphs of quadratic functions 	
Key Activities promoting SMSC and British Values	<p>SOCIAL Order and compare numbers with up to 3 decimal places (compare 10 different countries and their GDP)</p> <p>CULTURAL Eastern Maths and the invention of zero and negative numbers (BBC Clips)</p>	<p>CULTURAL The history of Algebra (look at some famous mathematicians and what they did. Euclid, Pythagoras, The Babylonians etc)</p> <p>MORAL Look at the fairness of someone receiving $\frac{1}{2}$ and $\frac{1}{4}$ of an amount</p>	SOCIAL Activities that involve group work and problem solving	<p>CULTURAL Origami (look at the origins and make 3-D solids using Origami)</p> <p>CULTURAL Look at various formulae within shape (Solve problems involving area)</p>	SOCIAL Study various graphs from differing countries and look at intercepts and how these can be interpreted	<p>MORAL Look at the fairness of 'play your cards right' (pros and cons of gambling)</p> <p>SOCIAL Discuss the vocabulary of probability and their meanings</p>

	CULTURAL When studying standard form look at the distance from earth to the moon etc	MORAL Dividing ratios (is it fair that someone should get more money based on age?) Best buy (why is it important to find the best buys when you have your own house?)				
Key Homework	Set w/c 3 rd October Due w/c 10 th October	Set w/c 28 th November Due w/c 5 th December	Set w/c 23 rd January Due w/c 30 th January	Set w/c 13 th March Due w/c 20 th March	Set w/c 15 th May Due w/c 22 nd May	N/A
Key Assessments inc. dates	N/A	w/c 12 th December	N/A	w/c 20 th March	WHOLE SCHOOL EXAMS (DATE TBC)	N/A

Year 11 KS4	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Key Learning <ul style="list-style-type: none"> • knowledge • skills • experiences 	Number Algebra Shape, Space & Measure - Investigating Properties of Shape - Calculating - Solving Equations & Inequalities I <i>Pupils will be able to:</i> <ul style="list-style-type: none"> • Know the convention for labelling the sides 	Higher/Foundation Pupils will be preparing for their mock exams during this half-term	Higher/Foundation After analysing the mock exams, teachers will develop and create SOW that enable pupils in their classes to progress towards targets	Higher/Foundation Pupils to continue with SOW that has been created and developed by staff following the mock exams	<i>Pupils will be preparing for their upcoming exams by revising key topics</i>	N/A

	<p>in a right-angle triangle</p> <ul style="list-style-type: none"> • Know the trigonometric ratios, $\sin\theta = \text{opposite/hypotenuse}$, $\cos\theta = \text{adjacent/hypotenuse}$, $\tan\theta = \text{opposite/adjacent}$ • Know the exact values of $\sin\theta$ and $\cos\theta$ for $\theta = 0^\circ, 30^\circ, 45^\circ, 60^\circ$ and 90° • Know the exact value of $\tan\theta$ for $\theta = 0^\circ, 30^\circ, 45^\circ$ and 60° • Know that $a^{1/n} = \dots$ • Know that $a^{-n} = \dots$ • 10M1 Manipulate fractional and negative indices • 10M10 Apply trigonometry in two dimensions 					
<p>Key Activities to promote SMSC and British Values.</p>	<p>SOCIAL Developing deep thinking and questioning throughout Mathematics</p>	<p>SOCIAL Developing deep thinking and questioning throughout Math</p>	<p>SOCIAL Developing deep thinking and questioning throughout Mathematics</p>	<p>SOCIAL Developing deep thinking and questioning throughout Mathematics</p>	<p>SOCIAL Developing deep thinking and questioning throughout Mathematics</p>	

	<p>SOCIAL Use Maths as a tool to explore</p> <p>MORAL/SOCIAL Use Maths in real life contexts, applying and exploring the skills required to solve various problems</p> <p>SOCIAL Problem solving</p>	<p>MORAL/CULTURAL Make sense of data available in the modern world around Mathematics</p> <p>MORAL/SOCIAL Use Maths in real life contexts, applying and exploring the skills required to solve various problems</p> <p>MORAL Pupils to have an awareness of bias in materials</p>	<p>SOCIAL Use Maths as a tool to explore</p> <p>MORAL/SOCIAL Use Maths in real life contexts, applying and exploring the skills required to solve various problems</p> <p>CULTURAL Discussion on the cultural and historical roots of mathematics, such as Pythagoras' theorem</p>	<p>SOCIAL Use Maths as a tool to explore</p> <p>MORAL/SOCIAL Use Maths in real life contexts, applying and exploring the skills required to solve various problems</p>	<p>SOCIAL Use Maths as a tool to explore</p> <p>SOCIAL Use Maths in real life contexts, applying and exploring the skills required to solve various problems</p> <p>SOCIAL Problem solving</p>	
Key Homework:	Set w/c 3 rd October Due w/c 10 th October	MOCK EXAMS – REVISION VIA MATHSWATCH.VLE	Set w/c 23 rd January Due w/c 30 th January	Set w/c 13 th March Due w/c 20 th March	N/A	N/A
Key Assessments Inc Dates		WHOLE SCHOOL MOCK EXAMS (DATE TBC)	N/A	Wc 1 st March	WHOLE SCHOOL EXAMS (DATE TBC)	N/A