



Pembroke Hall School

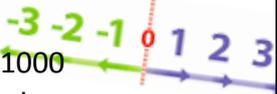
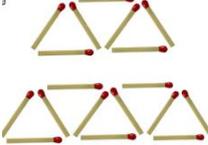
Autumn Term Maths Plan for Parents – Year 6

Below you will find an outline of what your daughter will be learning each week in her Maths lessons. Please note that teachers carry out continuous assessment which may result in some adjustments to planning, particularly in Year 6. We will also complete a range of past papers to ensure the girls are familiar with the types of questions and to support exam technique. Teachers may also adapt their planning to suit the needs of individual girls or their class.

Subject: Maths

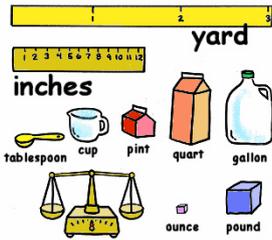
Year Group: 6

Term & Date: Autumn 2018

Week		
<p>1 Place value and negatives</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • Multiply and divide whole numbers and decimals by 10, 100 or 1000 • To count on and back through zero, understanding negative numbers • To carry out simple addition and subtraction with negative numbers 	
<p>2 Special numbers</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • Know what prime numbers, square numbers, cube numbers and triangular numbers are • Solve problems using these special numbers • To use a factor tree to write a number as a product of prime factors 	
<p>3 Sequences, nth term</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • To write a sequence when given the first term and the rule • Continue a practical sequence (e.g. matchstick patterns) • Begin to understand the relationship between the position of a number in a sequence and the number (nth term) 	
<p>4 Averages and probability</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • Find the mean, median, mode and range of a set of data • Apply this not only to lists of numbers but tables and graphs • Use the language of probability to describe the likelihood of an event • Calculate probability as a fraction 	
<p>5 Fractions, decimals and percentages</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • To partition numbers with up to three decimals places and give the value of each digit • Arrange a set of decimals in order • Write fractions in their simplest form • Convert improper fractions into mixed numbers and vice versa • Find a fraction of a number 	

NOTE: Objectives from weeks 5 & 6 may be taught in a different order if the teacher feels it is suitable for their group)



<p>6 Fractions</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • Compare fractions and put them in order of size • Find a fraction that fits between two fractions • To round decimals to the nearest whole, to 1dp or 2dp 	
HALF TERM – week 7 and 8		
<p>9 Speed- Distance-Time, Ratio and Proportion</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • Calculate speed when given the distance and the time • Calculate distance when given the speed and the time • Calculate time when given speed and distance • Solve problems involving ratio and proportion 	
<p>10 BIDMAS. Roman Numerals</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • Use the correct order of operations (BIDMAS) • To write numbers in Roman numerals and vice versa 	
<p>11 Measure, area, perimeter and volume</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • Suggest suitable units to measure lengths • Convert units of measure (metric) • Solve problems involving capacity, mass or length • Become familiar with imperial units (not expected to remember but may need to apply in a word problem) • Find the area and perimeter of shapes • Calculate the volume of cuboids 	
<p>12 Angles</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • Estimate, measure and draw angles accurately • Calculate angles on a straight line, at a point and in a triangle • To construct triangles using given information • Identify corresponding, alternate and co-interior angles 	
<p>13 Transformations and algebra</p>	<p>Main aims of the week:</p> <ul style="list-style-type: none"> • To be able to reflect, rotate or translate a shape • Decide if a shape has rotational symmetry and state the order of rotational symmetry • Understand the terms congruent, perpendicular and parallel 	
<p>14 & 15 Time, Maths clinics and recap</p>	<p>REVISION</p> <ul style="list-style-type: none"> • Tell the time to the nearest minute; use analogue, digital and Roman numeral clocks • To convert time from analogue to digital • Convert units of time and work out time intervals crossing the hour <p>Teachers to decide which areas need to be focused on nearer the time. Children to be given a revision check list to decide their own strengths and weaknesses with revision exercises to complete.</p>	