

BARNSTON PRIMARY SCHOOL MEDIUM TERM PLANNING AUTUMN



SUBJECT: Maths

YEAR GROUP: Yr 5.

YEAR IN CYCLE: Yearly.

	NATIONAL CURRICULUM	ADDITIONAL SCHOOL CURRICULUM
Autumn	<p>Pupils will be taught to:</p> <ul style="list-style-type: none"> • read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit • count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 • interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero <p>identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</p> <p>identify 3-D shapes, including cubes and other cuboids, from 2-D representations</p> <p>solve comparison, sum and difference problems using information presented in a line graph</p> <p>complete, read and interpret information in tables, including timetables.</p> <ul style="list-style-type: none"> • convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) • multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers • multiply and divide numbers mentally drawing upon known facts • divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context • multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 • compare and order fractions whose denominators are all multiples of the same number • identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths • recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$] • add and subtract fractions with the same denominator and denominators that are multiples of the same number • multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams 	<p>Pupils will be taught to:</p> <ul style="list-style-type: none"> • Explain what each digit represents in whole numbers and decimals with up to two places, and partition, round and order these numbers • Use efficient written methods to add and subtract whole numbers and decimals with up to two places • Construct frequency tables, pictograms and bar and line graphs to represent the frequencies of events and changes over time • Interpret a reading that lies between two unnumbered divisions on a scale • Read timetables and time using 24-hour clock notation; use a calendar to calculate time intervals • Refine and use efficient written methods to multiply and divide $HTU \times U$, $TU \times TU$, $U.t \times U$ and $HTU \div U$ • Draw and measure lines to the nearest millimetre; measure and calculate the perimeter of regular and irregular polygons; use the formula for the area of a rectangle to calculate the rectangle's area
	ENTERPRISE	SOCIAL, SPIRITUAL, MORAL & CULTURAL
SCHOOL DRIVERS	<ul style="list-style-type: none"> • children will take part in planning and implementing their own stall at the Christmas Fair 	<ul style="list-style-type: none"> • Group work, paired coaching, • Egyptian maths