

BARNSTON PRIMARY SCHOOL MEDIUM TERM PLANNING SPRING



SUBJECT: Maths

YEAR GROUP: Yr 6

YEAR IN CYCLE: Yearly

	NATIONAL CURRICULUM	ADDITIONAL SCHOOL CURRICULUM
Spring	<p>Ratio and proportion</p> <ul style="list-style-type: none"> • solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts • solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison • solve problems involving similar shapes where the scale factor is known or can be found • solve problems involving unequal sharing and grouping using knowledge of fractions and multiples <p>Algebra</p> <p>use simple formulae generate and describe linear number sequences express missing number problems algebraically find pairs of numbers that satisfy an equation with 2 unknowns enumerate possibilities of combinations of 2 variables</p> <p>Measurement</p> <p>Pupils should be taught to:</p> <ul style="list-style-type: none"> • solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate • use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places • convert between miles and kilometres • recognise that shapes with the same areas can have different perimeters and vice versa • recognise when it is possible to use formulae for area and volume of shapes • calculate the area of parallelograms and triangles • calculate, estimate and compare volume of cubes and cuboids using 	<p>KS3 work – area and circumference of circles for higher level children. KS3 – number work on ratio and fractions KS3 – pie chart work KS2 – pervasive number work</p>

standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]

Geometry

Pupils should be taught to:

- draw 2-D shapes using given dimensions and angles
- recognise, describe and build simple 3-D shapes, including making nets
- compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
- illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
- recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

Position and direction

Pupils should be taught to:

- describe positions on the full coordinate grid (all four quadrants)
- draw and translate simple shapes on the coordinate plane, and reflect them in the axes

Statistics

Pupils should be taught to:

- interpret and construct pie charts and line graphs and use these to solve problems
- calculate and interpret the mean as an average.

ENTERPRISE

- Fruit to Suit - running own healthy tuck shop

SCHOOL DRIVERS

SOCIAL, SPIRITUAL, MORAL & CULTURAL

Team work and co coaching during Maths treasure hunts
Second partner seats used during teaching – mixed abilities before set tables