The King's CHURCH OF ENGLAND SCHOOL KIDSGROVE

Meaningful homework plan: Mathematics

CONNECTED

Half term points

HF

7

AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
N1.2 Multiplying whole numbers N2.2 Writing and ordering decimals N2.3 Multiplying and dividing by powers of 10 N7.2 Factors, primes and powers N3.2 Rounding larger numbers GM 1.5 Interpreting Scales GM 1.6 The metric System GM 5.2 Coordinates GM 5.3 Translation	N1.3 Adding and subtracting decimals N 3.3 Rounding SP1.3 Using frequency tables SP2.4 Pie charts GM2.2 Line symmetry GM5.4 Reflection	N2.4 Negative numbers SP1.3 Using frequency tables SP2.3 Vertical line charts A1.1 Making and using word formulae A1.2 Using letters	N4.2 Finding equivalent fractions GM2.3 Angle facts (Algebraic part can be postponed until after A1.3 for less confident learners) A2.2 Generating sequences	N5.1 Understanding and using percentages N5.2 Calculating percentages of quantities SP4.1 Introduction to probability GM2.5 Angles in triangles and quadrilaterals	N1.4 Dividing whole numbers A3.1 Real life graphs GM3.1 Understanding area
Meaningful homeworks: **Paper based task on current and previous topics** • Converting units of measure, Area, • Perimeter, • Types of triangles, • Coordinates, • Place value, • Metric vs imperial measures	**Meaningful homeworks:** **Paper based task on current and previous topics** • Place value, • Translations, • Coordinates, • Identifying 2D shapes • Factors, • Triangles &quadrilaterals • Number properties • Perimeter • Area • Converting units of measure.	**Meaningful homeworks:** **Paper based task on current and previous topics** • Rounding smaller numbers • Rounding larger numbers • Rounding decimals • Decimal calculations • Multiples and factors • Laws of indices • Square and cube numbers • Sequences • Area • Perimeter • Coordinates problem solving	**Meaningful homeworks:** **Paper based task on current and previous topics** • Mean, mode, median, range, reverse mean problems, problem solving with averages, reading averages, find averages from a frequency table.	**Meaningful homeworks:** **Paper based task on current and previous topics** • Probability,fractions and percentages, conversion, equivalent fractions, angle facts, currency conversion	**Meaningful homeworks:** **Paper based task on current and previous topics** • Four operations on integers, shape areas, shape perimeters, square counting/drawing. Conversion graph/currency exchange
Key skills and knowledge assessed: • Convert between metric units • Identify the names of parts of circles • Identify the diameter is twice the radius • Find area and perimeter • Identify types of triangles • Converting metric measures • Multiplying and dividing powers of 10 • Know how to convert metric units e.g. mm -cm-m-km and reverse • Know the names of parts of the circle • Know the diameter of a circle is twice the radius	**Key skills and knowledge assessed:** • Identify multiples, factors and powers • Problem solve using factors/multiples • Round numbers to a given DP • Transformations, describe and plot translations • properties of triangles and quadrilaterals (multiple) • Know how to round to decimal places know (1 dp) • Know the process of multiplying and dividing by powers of ten • Know how to use coordinates to solve problems • Know the first 6 cube numbers and corresponding roots	**Key skills and knowledge assessed:** • Convert between metric units • To round numbers • Understand and use place value to add and subtract decimals • Multiplying and dividing by powers of ten • Use coordinates for direction • Problem solve using coordinates • Identify multiples, factors, and powers • Know how to convert metric units e.g. mm -cm-m-km and reverse • Know how to round to decimal places (1 dp) • Know the process of multiplying and dividing by powers of ten	**Key skills and knowledge assessed:** • Find the range • Find the mode, • Find the median • Find the mean • Solve missing number problems for averages and range • Know how to identify formulae from given text • Know how to calculate the range • Know how to calculate the median • Know how to calculate the median and mode/modal from data set	**Key skills and knowledge assessed:** • Convert between mixed numbers and improper fractions, fractions, decimals and percentages • Calculate fractions/decimals/percentages of amounts. • Write a quantity as a fraction or percentage of another • List probability outcomes • state the probability of an event • Know how to convert between fractions – decimals – percentages • Convert between mixed numbers and improper fractions	**Key skills and knowledge assessed:** • Able to use four operations with whole numbers • Set up standard methods for subtraction and addition (column) • Set up standard methods for multiplication (either lattice or column) • Set up standard methods for division (short or long division) • Know number bonds and multiplication tables • Know decimal equivalents for fractions with a

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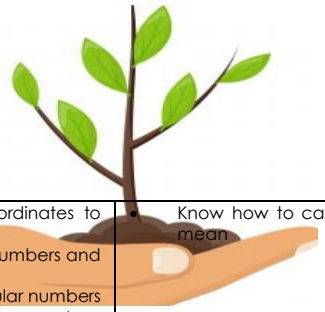

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		• Know the first 12 triangular numbers • Know the first 15 square numbers and corresponding root • Know the names and properties of special triangles and quadrilaterals	• Know how to use coordinates to solve problems • Know the first 6 cube numbers and corresponding roots • Know the first 12 triangular numbers • Know the first 15 square numbers and corresponding root	• Know how to calculate the mean	• Know percentage and decimal equivalents for fractions with a denominator of 2,3,4,5,8 and 10 • Know probability is out of one	denominator of 2,3,4,5,8 and 10

**Click on the icons to see examples of 'higher/ foundation', meaningful homeworks in maths.*