

Maths - UK

ICAR

Number of Classes: **VARIABLE**

Experience Level: **UPPER KEY-STAGE 2**

Age Range: 10 - 11 YEARS

01

000 and determine the value of each digit.Round any whole number to a required degree of

Read, write, order and compare numbers up to 10 000

Number - number and place value

- Use negative numbers in context, and calculate intervals
- across zero.
 Solve number and practical problems that involve all of the above

02

context

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03

05

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Number – addition, subtraction,

 Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long

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multiplication Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders,

multiplication and division

- fractions, or by rounding, as appropriate for the context
 Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the
- Perform mental calculations, including with mixed operations and large numbers
 Identify common factors, common multiples and prime numbers
 Use their knowledge of the order of operations to carry out calculations involving the four operations

· Solve addition and subtraction multi-step problems in

contexts, deciding which operations and methods to use and whySolve problems involving addition, subtraction,

· Use estimation to check answers to calculations and

multiplication and division

determine, in the context of a problem, an appropriate degree of accuracy.

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Solve problems involving the relative sizes of two

 Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and

· Solve problems involving similar shapes where the scale

Solve problems involving unequal sharing and grouping

integer multiplication and division facts

the use of percentages for comparison

factor is known or can be found

Ratio and proportion

quantities where missing values can be found by using

03

using knowledge of fractions and multiples. Algebra

· Use simple formulae

Measurement

places

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decimal places where appropriate

· Convert between miles and kilometres.

Measurement (Contd.)

different perimeters and vice versa

and volume of shapes

Generate and describe linear number sequences
Express missing number problems algebraically
Find pairs of numbers that satisfy an equation with two unknowns

Enumerate possibilities of combinations of two variables.

 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three

 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 three decimal

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04

Recognise that shapes with the same areas can have

Recognise when it is possible to use formulae for area

Calculate, estimate and compare volume of cubes and

Calculate the area of parallelograms and triangles

cuboids using standard units, including cubic

· Recognise, describe and build simple 3-D shapes,

triangles, quadrilaterals, and regular polygons

Illustrate and name parts of circles, including radius,

Recognise angles where they meet at a point, are on a

straight line, or are vertically opposite, and find missing

diameter and circumference and know that the diameter

- including making nets
 Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any
 - directionDescribe positions on the full coordinate grid (all four

Draw and translate simple shapes on the coordinate

Interpret and construct pie charts and line graphs and

Calculate and interpret the mean as an average.

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05

- centimetres (cm³) and cubic metres (m³), and extending to other units.

 Geometry properties of shapes

 Draw 2-D shapes using given dimensions and angles.
- Geometry position and

is twice the radius

angles.

quadrants).

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Statistics

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use these to solve problems

plane, and reflect them in the axes.