

YEAR STATISTICS, SAMPLING AND

SEQUENCES

Continue a numerical or diagram

FDP AND PERCENTAGES Convert between fractions, decimals and percentages fluently Writing a percentage Percentages of an amount Percentage increase and decrease

STATISTICS, SAMPLING AND AVERAGES Calculate with mean, median and mode, including from data in a

FDP AND PERCENTAGES Convert between fractions, decimals and percentages fluently Percentages of an amount, increase and decrease

AVERAGES Calculate with mean, median and node, inc. from data in a table. Compare two or more sets of data using averages and range. Construct and interpret stem and leaf diagrams.

PERIMETER, AREA AND VOLUME Calculate the area of 2D & compound shapes. Calculate the surface area & volume of prisms. Use volume and surface area to

calculate unknown lengths **REAL LIFE AND STRAIGHT-LINE**

GRAPHS Plot liner graphs from an equation. Use y=mx+c to write an equation from a straight-line graph. Understand gradient and gradients of parallel lines. Plot and interpret graphs of real-life situations

TABLES, CHARTS AND GRAPHS

TRANSFORMATIONS Know there are 4 transformations. Follow instructions to draw transformations of shapes. Describe a transformation from two shapes.

Understand vectors

Calculate relative frequency. Write a probability from a 2-way table, venn diagram & real-life situations. Calculate missing probabilities. Set up and use tree diagrams for

RATIO & PROPORTION

calculate an amount

to fractions.

PROBABILITY

ratio.

ALGEBRA BASICS, BRACKETS AND

Simplifying, expanding, factorising

FORMULAE

including quadratics

Identify direct and inverse proportion

and use the appropriate method to Understand ratios and convert them Use appropriate strategies to PYTHAGORUS

Use Pythagoras' theorem to calculate missing amounts shared in a calculate the hypotenuse of a triangle, the shorter side of a

triangle & to solve problems that require multiple steps.

independent & dependent events

appropriately in connection with the angle. Use trigonometry to calculate missing sides of a triangle & missing angles of a triangle PLANS, ELEVATIONS AND CONSTRUCTIONS

Use a compass to draw bisectors and loci.

Use isometric paper to draw 3d shapes. Draw 2d representations of 3d shapes using different aspects of view.

Zone 10 starts

