

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

