Foxford Learning Plan

YEAR 11 Higher

Autumn 1

Key Vocabulary	
Scatter graph	
frequency	The number of times a certain value occurs
cumulative	"how much so far". From the verb to accumulate.
Density	A way of comparing how heavy different materials are.
Exterior angle	angles that are parallel to the inner angles of a polygon but lie on the outside of it
Interior angle	An angle inside a shape.
Arc	A portion of the circumference of a circle
Sector	A portion or part of a circle that is composed of an arc and its two radii.
Hypothenuse	The side of a right angle triangle opposite to the right angle.
Simultaneous	"At the same time"
Formulae	
Recurring decimal	repeating decimal, is a decimal number only that consists of digits repeating after a fixed interval after the decimal

Over the course of the term, I will be able to: -

	• Use data to identify correlation and be able to estimate trends of data • Draw cumulative frequency and use it to evaluate different aspects of date spread • Draw and Analyse histogram
	• Evaluate angles in parallel lines • Identify interior and exterior angles
	• Estimate data using capture and recapture • Sample data using stratification • Understand and apply different types of means
	• Understand and solve problems using basic probability • Solve problems using probability trees
	• Understand and apply the rules of indices • Apply Pythagoras Theorem in solving problems • Apply right-angle trigonometry
	• Expand single, double and triple brackets • Factorise linear and quadratic expressions • Identify the nth term of any linear sequence
	• Evaluate the area of any given 2D shape • Evaluate arcs and sectors of any given circle
	• Form and solve linear equations • Solve quadratic equations • Solve inequalities
	• Plot graphs from tables of values • Solve linear simultaneous equations • Rearrange formulae • Combine different functions
	• Multiply and divide different decimal numbers • Estimate numbers • Identify primes and HCF and LCM from Venn diagrams
	• Convert recurring decimal numbers to fractions • Calculate numbers using standard forms

I will Understand How To:

1. Apply different methods to analyse, evaluate and interpret data
2. Solve any angle problems in parallel lines or in shapes
3. Apply and analyse different strategies to sample and estimate data
4. Solve different probability problems
5. Solve linear, quadratic and simultaneous equations
6. Convert any number into the product of its primes