



Keywords: Spring 1

Year 11 Maths

Topic Title: Vectors, Percentages and Exponential graphs

- **Vectors**: The study of vectors is important, as it has many real life applications.
- **Percentages**: Percentages are important for understanding the financial aspects of everyday life.
- **Exponential graphs**: Exponential functions are used to represent real-world applications, such as bacterial growth, population and compound interest.

Keyword	Definition
Vector	A vector describes a movement from one point to another. A vector quantity has both direction and magnitude (size)
Collinear vectors	Two vectors are collinear if and only if the angle between them is 0 degrees. two parallel vectors will be always parallel to the same line but they can be either in the same direction or in the exact opposite direction.
Compound interest	Compound interest is calculated on the principal (original) amount and the interest already accumulated on previous periods.
Decay/ Depreciate	Depreciation refers to when the value of something goes down over time.
Multiplier	A percentage multiplier is a number which is used to calculate a percentage of an amount or used to increase or decrease an amount by a percentage.
Gradient	The degree of inclination, or the rate of ascent or descent.
Roots	A solution to an equation, usually expressed as a number or an algebraic formula.
Proof	Logical mathematical arguments used to show the truth of a mathematical statement. This is usually done using algebra.