



# Keywords: Spring 2

## 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
<b>Vector</b>	A vector describes a movement from one point to another. A vector quantity has both direction and magnitude (size)
<b>Collinear vectors</b>	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.
<b>Compound interest</b>	Compound interest is calculated on the principal (original) amount and the interest already accumulated on previous periods.
<b>Decay/ Depreciate</b>	Depreciation refers to when the value of something goes down over time.
<b>Multiplier</b>	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.
<b>Gradient</b>	The degree of inclination, or the rate of ascent or descent.
<b>Roots</b>	A solution to an equation, usually expressed as a number or an algebraic formula.
<b>Proof</b>	Logical mathematical arguments used to show the truth of a mathematical statement. This is usually done using algebra.