## Year 10 Maths Learning Journey

## Summer Term 4

Using Number: Indices and roots


## Learning Checkpoints

| LC Title | Completed | Dirt |
| :--- | :--- | :--- |
| Indices and roots |  |  |

## Key Vocabulary

Base: The number that gets multiplied when using an exponent
Billion: the number equivalent to the product of a thousand and a million; 1,000,000,000 or 109.
Cube: In geometry, a three-dimensional figure with six identical, square faces. Adjoining edges and faces are at right angles.

Estimate: To arrive at a rough or approximate answer by calculating with suitable approximations for terms

Exponent: the number of times a number is multiplied by itself.
Fourth root: A fourth root is what number multiplied by itself four times will yield the target number. Index/indices: number that tells us how many times a term has been multiplied by itself. The plural of index is indices.

Integer: Any of the positive or negative whole numbers and zero. Example: 2, -1 ,
Million: the number equivalent to the product of a thousand and a thousand; 1,000,000 or 106.
Negative: An integer less than 0.
Non-unit fraction: A non-unit fraction is a fraction where the numerator is not 1.
Power/index/exponent: a number positioned above and to the right of another (base). Can be negative, zero or fractional

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Prime: A whole number greater than 1 that has exactly two factors, itself and 1.
Prime factor: a natural number, other than 1, whose only factors are 1 and itself.
Square root: A number whose square is equal to a given number
Simplify: Reduce to its simplest form.
Square: The square of a number is the product of the number and itself.
Standard form: the form which numbers are recorded as a number between 1 and 10 multiplied by a power of ten; used for very large and very small numbers

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Unit fraction: A fraction that has 1 as the numerator and whose denominator is a non-zero integer

