**MYP Extended Math**

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In order to be ready for the MYP Extended Math course, you should be familiar with the following topics.

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|  | Function Families and Transformations | * Shapes of Parent Functions * Equations of Parent Functions * Transformations of Parent Function Graphs * Characteristics of Parent Functions * Connections Between the Graph, Equation, and Verbal Descriptions of Parent Functions |
| Radical Expressions, & Rational Exponents | * Simplify Radical Expressions * Operations on Radical Expressions |
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|  | [Factoring](https://docs.google.com/document/d/15OoEBkgyE9wfdHZwrbnQsIyGXAxpzSGc_7SGAfAlgRw/preview) | * Factor Polynomials in One or Two Variables |
| [Quadratic Functions](https://docs.google.com/document/d/14y1FDFG3TbHsxLxgXzpWqOnS6L-tLbu-TUrO0SlRxGU/preview) | * Solve Quadratic Equations * Transform Quadratic Functions * Characteristics of Quadratic Functions * Connections Between the Graph, Equation, Table, and Verbal Descriptions of Quadratic Functions * Relationships Among Solutions, Zeros, x-intercepts, and Factors of a Quadratic Expression |
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|  | [Rational Expressions & Equations](https://docs.google.com/document/d/1u-nqMrM-gAvzx1hhTRIlfcKykv8wxVa3HHbrPQ6HW4Y/preview) | * Characteristics of Rational Functions * Connections Between the Graph, Equation, Table, and Verbal Descriptions of Rational Functions |
| Inverses & Composition of Functions | * Determine the Inverse of a Function * Determine Compositions of Functions |
| [Exponential & Logarithmic Functions](https://docs.google.com/document/d/1fiemKqFYBEKRfvF48r9WfpllFmoljt9uA1Rti0xEj6o/preview) | * Transform Exponential and Logarithmic Functions * Characteristics of Exponential and Logarithmic Functions * Connections Between the Graph, Equation, Table, and Verbal Descriptions of Exponential and Logarithmic Functions |
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|  | [Sequences & Series](https://docs.google.com/document/d/1QAuOyNozkcXjjMT-yhoBABHARXGTo8xMpkDrwJ7Zp_g/preview) | * Solve Problems with Arithmetic and Geometric Sequences and Series |
| [Statistics](https://docs.google.com/document/d/1rygo2ZxSw1b4BfRAhk6e5H-euGnrMYqus_q9vll1Dl8/preview) | * Solve Problems with a Curve of Best Fit * Solve Problems Involving Normal Distributions * Solve Problems using Permutations and Combinations |
|  | Right Triangles | * The Pythagorean Theorem * Special Right Triangles * Trigonometric Ratios |