



# Course Overview: Advanced Higher Mathematics

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*Tuesday, 26 September 2023*

# Course Content

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- Partial Fractions
- Number Theory
- Binomial Theorem
- Differentiation
- Functions & Graphs
- Matrices
- Systems of Equations
- Complex Numbers 1
- Sequences & Series
- Proof
- Further Differentiation
- Integration
- Complex Numbers 2
- Vectors
- Further Integration
- Differential Equations

# Course Assessment

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- **ONGOING CLASS ASSESSMENT**
  - *Lesson Starters*
  - *Formal Homework*
  - *Past Paper Practice*
  - *Class Tests*
  - *Prelim*
- **FINAL SQA ASSESSMENT**
  - *Non-Calculator Paper (35 marks) – 1 hour*
  - *Calculator Paper (65 marks) – 2 hours*

# Course Timeline

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| Month     | Activity   |
|-----------|--|
| June      | Partial Fractions<br>Number Theory<br>Binomial Theorem |
| August    | Differentiation  |
| September | Functions & Graphs<br>Matrices<br>Systems of Equations |
| October   | Complex Numbers 1<br>Sequences & Series                |
| November  | Proof<br>Further Differentiation                       |

| Month    | Activity                                      |
|----------|---|
| December | <i>Prelims</i>                                |
| January  | Integration                                   |
| February | Complex Numbers 2<br>Vectors                  |
| March    | Further Integration<br>Differential Equations |
| April    | <i>Easter Revision</i>                        |
| May      | <i>SQA Exams</i>                              |

# Other Information

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- Resources available on OneDrive:
- [SQA Course Specifications](#)
- [SQA Past Papers](#)
- [SQA Understanding Standards](#)