

Ullapool High School

Advanced Higher Maths Course Outline

Term 1: May – July

1. Factorials and Binomial Theorem
2. Partial fractions
3. Differential Calculus
4. Applications of differential calculus

Term 2: August-October

5. Integral calculus
6. Properties of functions
7. Systems of equations

Block 1 test on topics 1-7

8. Proof and elementary number theory
9. Further differentiation

Term 3: October-December

10. Further integration
11. Complex numbers
12. Sequences and series

Block 2 test on topics 8-12

13. Matrices
14. Vectors

Term 4: January-April

Prelims

15. Further sequences and series
16. Further differential equations
17. Further methods of proof and number theory

Block 3 test on topics 13-17

Completion prelim

Course revision

Term 4: April-study leave

Course revision

We use the Maths in Action Advanced Higher textbooks 1-3. Excellent free resources to supplement this learning at home can be found at <https://www.advancedhighermaths.co.uk/free-ah-maths/>