Suggested order of teaching – SL

The student book is structured to allow you to teach the core content (Chapters 1–10) to a combined class of Analysis and approaches and Applications and interpretation students, before dividing into course-specific groups. If, however, you are teaching a class of only Analysis and approaches students, you may wish to follow the suggested order of teaching outlined below, which groups together content from the core section of the syllabus with content that is specific to the Analysis and approaches course.

This is a planning document that is meant to be amended. The dates are not fixed and should be adapted to fit the calendar provided by your school.

Year 1

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| **Wk** | **Unit** | **Topics** | **Student book chapter(s)** | **T&L resource(s)** |
| 1 | 1 | Standard form | 1 | Large numbers Task |
| 2 | 1 | Arithmetic S&S | 2 | Fibonacci PP, TED talk |
| 3 | 1 | Exponents & logs | 1, 12 |  |
| 4 | 1 | Exponents & logs | 1, 12 |  |
| 5 | 1 | Binomial theorem | 13 | Binomial expansions Task |
| 6 | 1 | Geometric S&S | 2, 13 |  |
| 7 | 1 | Applications | 2 |  |
| 8 |  | Proof | 11 |  |
| 9 |  |  |  |  |
| 10 | 2 | Straight line geometry | 3, 4 |  |
| 11 | 2 | Function notation | 3, 4 |  |
| 12 | 2 | Graphs of functions (Tech) | 3, 4 |  |
| 13 | 2 | Composite, Inverse functions | 14 | Composite functions PP |
| 14 | 2 | Quadratics | 15 |  |
| 15 | 2 | Solving equations/GDC focus | 17 |  |
| 16 | 2 | Rational functions, asymptotes | 16 | Asymptotes PP |
| 17 | 2 | Logs and exponential graphs | 16 |  |
| 18 | 2 | Transforming functions | 16 | Transforming functions Task |
| 19 |  |  |  |  |
| 20 | 3 | Area & volume | 5 |  |
| 21 | 3 | Sine & Cosine rules, Applications | 5 | Sine and cosine PP |
| 22 | 3 | Unit circle | 18 | Unit circle Task |
| 23 | 3 | Arc lengths, Area of sectors, Radians | 18 | Radians PP |
| 24 | 3 | Trigonometric identities | 18 |  |
| 25 | 3 | Trigonometric graphs | 18 | Transforming functions Task |
| 26 | 3 | Trigonometric equations | 18 |  |
| 27 |  |  |  |  |
| 28 |  |  |  |  |
| 29 | 4 | Data sampling | 6 | Sampling PP |
| 30 | 4 | Histograms, Cumulative Freq. | 6 |  |
| 31 | 4 | Measures of central tendency, variance | 6, 19 | Variance PP |
| 32 | 4 | Linear correlation | 6, 19 | -value PP |
| 33 | 4 | Probability | 7 |  |
| 34 | 4 | Probability | 7 |  |
| 35 |  |  |  |  |
| 36 |  | Exams & Exploration |  |  |

Year 2

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| **Wk** | **Unit** | **Topics** | **Student book chapter(s)** | **T&L resource(s)** |
| 1 |  | Exploration |  |  |
| 2 |  |  |  |  |
| 3 | 5 | Binomial distribution | 8 | Spreadsheet activity |
| 4 | 5 | Normal distribution | 8 | Spreadsheet activity |
| 5 | 5 | Standardization of normal variables | 19 |  |
| 6 |  |  |  |  |
| 7 | 5 | Limits, Rate of change | 9 | First principles PP |
| 8 | 5 | Increasing/decreasing functions | 9 |  |
| 9 | 5 | Tangents & normals | 9 |  |
| 10 | 5 | Chain, product, quotient rules | 20 |  |
| 11 | 5 | The second derivative, max/min points | 20 |  |
| 12 | 5 | Optimization | 20 |  |
| 13 | 5 | Kinematics | 21 | Kinematics PP |
| 14 |  |  |  |  |
| 15 | 5 | Introduction to integration | 10, 21 |  |
| 16 | 5 | Area under curve | 10, 21 | Volume of revolution PP |
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