LPS4B Shield-maroon aw

**LPSB | Mathematics A level | Checklist**

* You should use this checklist to monitor your progress through each chapter as it is completed by giving yourself red,amber or green.
* You should base your judgment upon how you perform in the topic assessment.
* If you are not green, you should use the resources available on teams/alevel drop in/ teacher support to ensure that you have revised the topic thoroughly.
* Once this work is complete, you can regrade yourself.

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| **Year 13** | | | | | |
|  | **Chapter** | **Topic** | **R/A/G Before** | **Revised?** | **R/A/G After** |
| **Pure** | **1** | **Proof** |  |  |  |
| **2** | **Trigonometry 2** |  |  |  |
| **3** | **Seq & series** |  |  |  |
| **4** | **Functions** |  |  |  |
| **5** | **Differentiation** |  |  |  |
| **6** | **Trig functions** |  |  |  |
| **7** | **Further algebra** |  |  |  |
| **8** | **Trig identities** |  |  |  |
| **9** | **Further differentiation** |  |  |  |
| **10** | **Further integration** |  |  |  |
| **11** | **Parametric equations** |  |  |  |
| **12** | **Vectors 2** |  |  |  |
| **13** | **Differential equations** |  |  |  |
| **14** | **Numerical methods** |  |  |  |
| **Stats** | **15** | **Probability** |  |  |  |
| **16** | **Statistic distributions** |  |  |  |
| **17** | **Hypothesis testing (normal)** |  |  |  |
| **Mech** | **18** | **Kinematics 2** |  |  |  |
| **19** | **Forces, motion & moments** |  |  |  |
| **21** | **Projectiles** |  |  |  |
| **21** | **Friction** |  |  |  |

**Year 12 Topics**

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| **Year 12** | | | | | |
|  | **Chapter** | **Topic** | **R/A/G Before** | **Revised?** | **R/A/G After** |
| **Pure** | **1** | **Problem solving & proof** |  |  |  |
| **2** | **Surds & indices** |  |  |  |
| **3** | **Quadratic functions** |  |  |  |
| **4** | **Equations & inequalities** |  |  |  |
| **5** | **Co-ordinate geometry** |  |  |  |
| **6** | **Trigonometry** |  |  |  |
| **7** | **Polynomials** |  |  |  |
| **8** | **Graphs & transformations** |  |  |  |
| **9** | **Binomial expansion** |  |  |  |
| **10** | **Differentiation** |  |  |  |
| **11** | **Integration** |  |  |  |
| **12** | **Vectors** |  |  |  |
| **13** | **Exponentials & logs** |  |  |  |
| **Stats** | **14&15** | **Data collection/ interpretation** |  |  |  |
| **16** | **Probability** |  |  |  |
| **17** | **The binomial distribution** |  |  |  |
| **18** | **Hypothesis testing (binomial)** |  |  |  |
| **Mech** | **19** | **Kinematics** |  |  |  |
| **20** | **Newtons laws of motion** |  |  |  |
| **21** | **Variable acceleration** |  |  |  |

**Resources**

* Resources for the course are added to teams as and when content has been taught. Use of these resources to prepare for assessments is paramount. The resources section for maths should be your home away from home: LPSB-Year 13 > Maths Channel > Files.
* <https://alevelmathsrevision.com/> - Exam questions by topic
* <https://www.physicsandmathstutor.com/maths-revision/> - Exam questions by topic, worksheets, cheat sheets etc.
* MADAS maths papers - excellent pure maths practice, the MP1 papers are AS content and the MP2 papers are A level content.
* MP1: <https://madasmaths.com/archive_iygb_practice_papers_mp1_practice_papers.html>
* MP2: <https://madasmaths.com/archive_iygb_practice_papers_mp2_practice_papers.html>