

JAMB Mathematics Syllabus by studentmajor.com

- 1. Number bases:** Study and know how to convert numbers from one base to another, and learn how to solve binary numbers problems.
- 2. Fractions, Percentages, Decimals and Approximations:** Read everything on this topic such as significant figures, how to do simple interest calculations, how to calculate percentage errors, know how to calculate profit and loss percent. Other sub-topics under this topic include proportion and rate, ratio and taxation.
- 3. Indices:** Know all the laws of indices and how to write numbers in their standard form.
- 4. Logarithms:** Understand all the laws of logarithm and how to solve problems in logarithm.
- 5. Surds:** Read everything under this topic.
- 6. Sets:** Study and know how to solve all set problems and its applications including that of Venn diagrams.
- 7. Algebra:** Cover this topic effectively and intensively
- 8. Polynomials:** topics to cover under polynomials includes change of subject of formula and everything on the factor and remainder theorems
- 9. Simultaneous equations:** Read everything under Simultaneous equations and how to solve simultaneous equation problems.
- 10. Variation:** Study about direct, inverse, joint and partial variations and the percentage increase and decrease.
- 11. Inequalities:** Read everything under inequalities and learn how to solve all the problems under this topic.
- 12. Progression:** Study and solve problems under arithmetic progression (A. P) and geometric progression (G. P)
- 13. Matrices:** Study everything under matrices and determinants.
- 14. Angles and lines:** Learn how to construct and identify angles and lines, polygons, etc.
- 15. Mensuration:** Know all the measurement instruments and their uses and the fundamental measurements and units of area, length, base, height, circumference, diameter, etc.
- 16. Loci:** Cover as much as you can under this topic.
- 17. Geometry and Trigonometry:** Read everything under this topic.

18. Calculus: Topics to cover under Calculus should include maxima & minima, differentiation, integration, rate of change and their Application

19. Mathematics of data presentation: Candidates should read and learn to solve all problems, and how to present data on histogram, pie chart, frequency distribution and bar chart.

20. Statistics: know how to solve and find mean, median and mode of grouped and ungrouped data. Study how to measures and interpret the measurement of location, dispersion, cumulative frequency deviation, range, mean, standard deviation and variance.

21. Probability: Read everything under this topic.

22. Combination and Permutation: Learn how to solve simple combination and permutation problems.

JAMB Mathematics Recommended Textbooks For 2021

- Distinction in Mathematics by Adelodun A.
- Basic Mathematics for Senior Secondary by Anyebe, J.
- New General Mathematics (1-3) by Channon, J. and Co.
- Further Mathematics by Egbe.
- Algebra and Calculus by Ibude, S.
- New School Mathematics by David -Osuagwu, M. et al (2000)
- Further Mathematics Project (1-3) by Adegun M. and Co.

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