

Possible Pure Math Topics

1. AP & GP with all applications
2. Complex Numbers – Loci, roots of $z^n = c$, where c is a complex number.
3. Method of Differences
4. Parametric Equations with tangents and normal
5. Integration by parts and Substitution and applications (Volume)
6. System of Linear Equations
7. Inequalities

Statistics Topics – Points to note

1. Read the questions carefully and take note of cue phrases and conditions given in the question.
2. Hypothesis Testing – revise both the critical value method and p-value method.
3. Familiarise yourself with the description of the sampling methods and advantages/disadvantages of sampling methods in the **context** of the question.
4. Revise the assumptions for Binomial and Poisson distribution. Write it in the context of the question.
5. Approximations – revise the approximation conditions for binomial and poisson distribution.
6. No Continuity Correction is required for Central Limit Theorem.
7. Assumptions for t-test and z-test and when to use a t-test and z-test.
8. List down cases/outcomes for questions on Probability and P&C.
9. Definition of the level of significance and p-value in the **context** of the question.
 - a. Level of significance – the probability of rejecting H_0 when H_0 is true.
 - b. P-value- smallest probability of rejecting H_0 when H_0 is true
10. Look out for independent variables in Linear Regression questions.

Disclaimer: This is just a prediction and it may not correspond to the actual questions in the 2014 A Level Examination. All the best for your A Level Examination.