



EXAMINATIONS COUNCIL OF ZAMBIA

JUNIOR SECONDARY SCHOOL LEAVING EXAMINATION (GRADE 9) – 2013

MATHEMATICS 401/2
PAPER 2

(INTERNAL AND EXTERNAL CANDIDATES)

WORKING TIME: 2 HOURS
READING TIME: 10 MINUTES

MARKS: 50

CANDIDATE NAME: _____
EXAMINATION NUMBER: _____
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INSTRUCTIONS TO CANDIDATES

- 1 Write your name, examination number and school/centre in the spaces provided on the question paper.
- 2 There are **eight (8)** questions in this paper. Answer any **five (5)** questions.
- 3 Answer all questions in the spaces provided on the question paper.
- 4 Write your answers clearly.
- 5 All essential working must be shown. Candidates will be penalized for omitting essential working.
- 6 **Cell phones and calculators are not allowed in the examination room.**
- 7 Tick (✓) the question you have attempted in the grid provided below.

Questions	1	2	3	4	5	6	7	8	Total marks
Tick									
Mark									

Maths Past Papers Grade 9

Marco Cascella



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web today we are going to extract dna from wheat germ this exploration station highlights some of the areas that can be focused on with a degree in genetics or molecular biology how is wheat germ dna extraction directly related to genetics on the large scale view of things such as a career in genetics and projects such as the human genome project

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web from wheat germ protocol salk institute mobile lab step 1 obtain a numbered 50 ml conical vial with 10 ml of water write your number here step 2 to the tube with 10 ml water add 1g 1 pinch of raw wheat germ the wheat germ should settle to fill 1 2 the cone step 3 cap the tube and vigorously shake to mix for about 30 seconds

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web purpose the purpose of this lab is to extract dna from wheat germ iii hypothesis if you add wheat germ water soap and alcohol then the dna should appear iv materials 1 gram raw wheat germ 50 ml test tube 20 ml hot 50 60 deg c tap water frac14 teaspoon detergent soap paper towel 14 ml 91 alcohol v procedure 1