

How to Succeed at National 5 Maths

National 5 Mathematics – Skills Summary

Algebra		Geometry		Trigonometry		Statistics & Number	
A1	Multiply out brackets and simplify	G1	Find the gradient of a straight line	T1	Graphs of trigonometric functions	N1	Work with surds: simplify expressions; rationalise denominator
A2	Factorise: common factor, difference of 2 squares, trinomials and combinations	G2	Calculate the length of arc or area of sector	T2	Solve trigonometric equations; establish simple identities	N2	Use the laws of indices, including calculations using scientific notation
A3	Complete the square	G3	Calculate the volume of standard solids and composite shapes	T3	Calculate the area of a triangle using trigonometry (formula given)	N3	Round to a given number of significant figures
A4	Reduce an algebraic fraction to its simplest form	G4	Apply Pythagoras' Theorem in complex situations, including converse and 3D	T4	Use sine/cosine rules to determine a side/angle	N4	Work with percentages: appreciation/depreciation and 'reversing'
A5	Add, subtract, multiply and divide algebraic fractions	G5	Find an angle using the properties of circles, triangles, polygons etc	T5	Use bearings with trigonometry	N5	Operations (and combinations) on fractions/mixed numbers
A6	Find/interpret the equation of a straight line e.g. $y - b = m(x - a)$, $y = mx + c$ etc	G6	Use similarity with lengths, areas and volumes			S1	Calculate/interpret interquartile range and standard deviation
A7	Solve linear equations and inequations	G7	Add/subtract vectors in 2D using directed line segments			S2	Find and use the equation of a best-fitting straight line
A8	Work with simultaneous equations: solve graphically or algebraically	G8	Determine coordinates of a point from a diagram in 3D				
A9	Change the subject of a formula	G9	Add/subtract vectors in 2D/3D using components; find magnitude of a vector				
A10	Recognise/determine the equation of a quadratic function from its graph						
A11	Sketch the graph of a quadratic function						
A12	Identify nature and coords of TP, equation of axis of symmetry of a quadratic						
A13	Work with quadratic equations: factorise; graph; formula; discriminant						

SQA Final Examination

- Friday 3 May
- Paper 1 – 0900 to 1015 (Arrive in plenty time, fully equipped)
 - Non-calculator
 - 50 Marks
- Paper 2 – 1045 to 1235
 - Calculator
 - 60 Marks

How to Prepare

- Students have recently gone through their prelim and should use their prelim analysis sheet to be aware of strengths & weaknesses.
- Complete all recommended past paper questions on the areas they need to work on.
- Begin a structured revision program as soon as possible.
- Two hours per week and building up as the exams approach.
- Attend after school revision sessions.
- Use the Revision Booklet (being provided soon) and complete as many questions as possible.
- Complete whole past (and practice) papers under timed conditions as the exam approaches.
- Stay away from phones and gaming!

Prelim Analysis Sheet

DGS Nat5 Maths Prelim 2019



A N Other

Suggested Examples To Help Improve Performance
Taken From SQA Past Papers

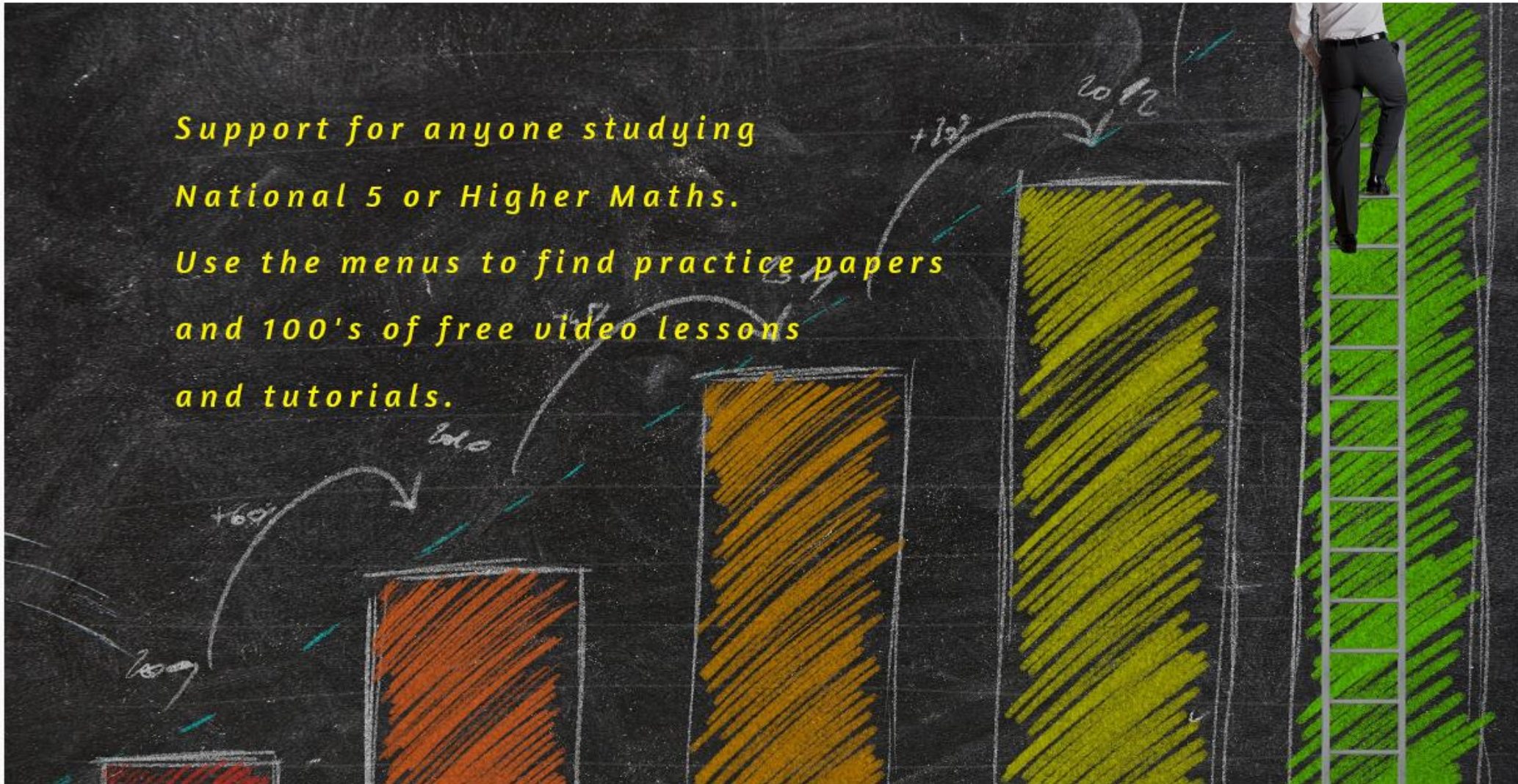
Paper 1					Paper 1	Paper 2	Overall	
Qu	Topic	Marks	Out Of	Past Papers Taken from Nat5 Paper 1's Unless Stated Otherwise	Marks	18	21	39
1	BIDMAS	0	2	Credit Paper 1's - 2008 Q1, 2009 Q1, 2010 Q1, 2011 Q1, 2012 Q1, 2013 Q1	Overall Percentage			44%
2	Fractions	2	2					
3	Multiplying Brackets	3	3					
4	3D Coordinates	0	2	2014 P2 Q2, 2016 Q7a, 2017 Q5, 2018 Q13				
5	Simultaneous Equations	3	6					
6	Reverse Percentage Change	1	3	2014 Q9, 2015 P2 Q8, 2017 P2 Q5, 2018 P2 Q11				
7	Resultant Vectors	0	2	2014 Q4, 2015 P2 Q5, 2016 Q1				
8	Inequations	2	4					
9	Volume	0	3	2018 Q17, Int2 Paper 1's 2010 Q3, 2007 Q3, 2003 Q3				
10	Straight Line	1	3	2015 Q8, 2017 Q6				
11	Surds	1	3	2014 Q8, Credit Paper 1's - 2008 Q9&11, 2010 Q8, 2011 Q9b				
12	Angles in Circles	2	2					
13	Indices	3	3					

Overall % for each skill			
Topic	Mark	Out of	%
Numeracy	11	19	58%
Algebra	14	23	61%
Geometry	12	35	34%
Statistics	1	6	17%
Trigonometry	1	5	20%

Paper 2				
Qu	Topic	Marks	Out Of	Past Papers Taken from Nat5 Paper 2's Unless Stated Otherwise
1	Compound Interest	3	4	
2	Scientific Notation	1	2	
3a	Difference of Two Squares	1	1	
3b	Simplify Algebraic Fractions	1	3	2015 P1 Q12, 2017 Q9b
4	Mean & Standard Deviation	1	6	2014 Q4, 2015 P1 Q5, 2016 Q6, 2017 P1 Q12, 2018 Q5
5	Magnitude of a Vector	2	2	
6	Similarity	1	4	2014 Q5, 2015 Q9, 2016 Q11
7	Converse of Pythagoras	1	4	2014 Q6, 2017 Q7
8	Trigonometry - Sine Rule	1	5	2015 Q3, 2016 Q8, 2016 Q16, 2017 Q3
9	Subtract Algebraic Fractions	3	3	
10	Volume	1	6	2014 Q7, 2015 Q6a, 2016 Q7, 2017 Q6, 2018 Q7
11a	Finding Sector Angle	1	3	2015 Q10, 2017 Q14
11b	Length of Arc	1	2	
12	Pythagoras in the Circle	3	5	



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For students looking for a 'good' pass at National 5 Maths in 2019 you may wish to consider subscribing to the fantastic additional *exam focused* resources available in the [Online Study Pack](#).

The N5 Maths Exam is on Friday 3rd May 2019. The full 2019 SQA Exam Timetable can be found [HERE](#).

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Marking instructions Included below papers.

Tips for maximising success on exam day

- Read questions thoroughly – make sure you answer what is actually asked.
- Make sure numeracy skills are up to scratch.
- Don't rush to avoid “silly” mistakes.
- Present amounts of money correctly.
- Write an unrounded answer before you round.
- Include units in all questions.
- Communicate answers clearly and concisely. Don't add additional detail that is not needed in a written answer.
- Give a reason to explain any decision you make. e.g. “On average Jim did better than Bob as 85% is more than 80%.”

Any questions?