

Dunbar Grammar School Mathematics Department

S5-6 Parent Information Evening
Thursday 7th October 2021

- Thank you for joining us. We aim to start by 6.10pm
- This will be a large meeting so to save any issues with bandwidth please remain on mute and keep your cameras off.

Welcome

Welcome to the S5-6 N5 Maths Information Evening. Our talking points for the next 30 minutes are:

- Course Information
- Ways to support students at home

Course Outline

Dunbar Grammar School – National 5 Maths Course

<p><u>Unit 1</u> Numerical Skills & Percentages Algebraic Skills Review Volume</p>	<p><u>Unit 2</u> Straight Line Algebraic Skills Similarity</p>	<p><u>Unit 3</u> Pythagoras' Theorem Circle Properties Trigonometry</p>
<p><u>Unit 4</u> Vectors Simultaneous Equations Statistics</p>	<p><u>Unit 5</u> Algebraic Fractions Equations & Inequations Surds & Indices</p>	<p><u>Unit 6</u> Change the Subject Quadratics Trig Graphs & Equations</p>

SQA Final Examination

Wednesday 4th of May

- Paper 1 (Non-calculator) – 0900 to 1000
- 40 Marks

- Paper 2 (Calculator) – 1030 to 1200
- 50 Marks

Top Tips For Students

- Organise all jotters and notes.
- Split up the course and topics to ensure everything is covered.
- Begin with a review of examples and notes.
- Complete the past paper questions matching each topic.
- Complete past papers under timed conditions.

Ways to Support Students at Home

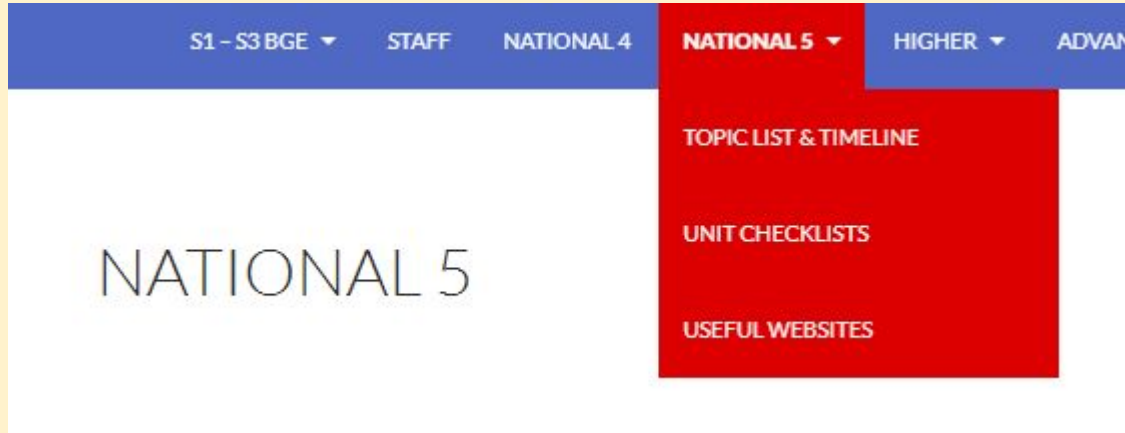
- Students have access to a Google Classroom with revision resources and video lessons.
- Please ask about what is on their Google Classrooms.
- Encourage them to use it once per week to read what is on the classroom and review something they have already learned.

The screenshot shows a Google Classroom page for a class named "Mr White - Col5 National 5 Maths". The class code is "ur7alqj". The page features a blue header with a graduation cap graphic and options to "Select theme" and "Upload photo". Below the header, there is a "Create" button and links to "Google Calendar" and "Class Drive folder". The main content area is organized into sections: "General Revision & Course Info" (containing "Nat5 Past Papers Powerpoint Resource", "Course Outline", and "Nat5 Formulae Sheet"), "Weekly Tests" (containing "Week 1 Solutions"), "Homework Tasks" (containing "Home Exercise 1 - Basic Calculations"), and "Straight Line" (containing "Identifying The Equation of A Line" and "Calculating Gradient"). A sidebar on the left lists "All topics" including "General Revision & ...", "Weekly Tests", "Homework Tasks", "Straight Line", "Nat5 Algebra Skills", "Volume", "Nat4 Algebra Revis...", "Percentages", and "Fractions & Rounding".

Ways to Support Students at Home

School website – the N5 Maths page provides live links.

https://www.edubuzz.org/dgs_maths/



Ways to Support Students at Home

Prelim Analysis Sheet

DGS Nat5 Maths Prelim 2019



A N Other

Suggested Examples To Help Improve Performance
Taken From SQA Past Papers

Paper 1				Past Papers Taken from Nat5 Paper 1's Unless Stated Otherwise			Paper 1	Paper 2	Overall
Qu	Topic	Marks	Out Of		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				Past Papers Taken from Nat5 Paper 2's Unless Stated Otherwise		
Qu	Topic	Marks	Out Of			
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			

Ways to Support Students at Home

Revision Planner:

This will be issued later in the session



**DUNBAR
GRAMMAR SCHOOL**

National 5 Mathematics Revision for final exam



To revise the topics indicated, attempt the selected questions from the exam papers, check answers and method and ask your teacher to give help when required.

"The best way to eat an elephant is one bite at a time. The secret is not to waste too much time deciding where to take the first bite."

Unknown

"The secret of getting ahead is getting started. The secret of getting started is breaking your complex, overwhelming tasks into small manageable tasks, and then starting with the first one."

Mark Twain

Completed by	Topic		
9 week to go	Algebraic Operations	Percentages	Order of Operations
8 week to go	Equation of Straight Line	Area and Volume	Scientific Notation
7 week to go	Pythagoras Probs.	Similarity	Evaluating $f(x)$
6 week to go	Statistics – St. Deviation & Box Plots	Probability	Formulae
5 week to go	Quadratic Equations	Fractions & Algebraic Fractions	
4 week to go	Trigonometry		Vectors
3 week to go	Equations/Inequ.	Simultaneous Equ.	Surds & Indices
2 week to go	2015 Nat5 Exam Paper 1 & 2		
1 week to go	2016 Nat5 Exam Paper 1 & 2		
Week of the exam!	2017 Nat5 Exam Paper 1 & 2		

About the revision plan

The aim of this revision guide is to help you plan out your revision and shows just how much there is to revise for. Can you imagine trying to revise all of this the week before the exam?!! It pays dividends to begin revising early.

Attempt the tasks each week and come to the after school revision sessions to get help with questions you found difficult.

This revision plan uses a variety of exam papers from Credit and Intermediate 2 Maths to help revise the topics in this course. We have also saved the 2018 paper as a full paper to practice at the end of the course. All the exam papers are available at <https://sites.google.com/a/edubuzz.org/math-past-papers/home/>

Ways to Support Students at Home

After School Support Sessions

Every night of the week!

Monday	Miss Williams M13
Tuesday	Mr White M16
Wednesday	Mr Laidlaw M19
Thursday	Mr Morrison M17

Any Questions???