

NQ Study Skills in Maths

Ross Henderson - PT Mathematics and Numeracy



Course Components

- ▶ There are two components to the National 5, Higher and ADVH courses;
 - ▶ Paper 1 - Non-Calculator
 - ▶ Paper 2 - Calculator
- ▶ Pupil final results are 100% based on exam performance in May exam.
- ▶ Course contents are now back to pre-covid however timings from last session remain.



2022-23 Course Modifications

- ▶ N5 Applications - The following content will now be assessed in the question papers in session 2022-23: **scale drawing, planning a navigation route, line of best fit.**
- ▶ N5 Mathematics - The following content will now be assessed in the question papers in session 2022-23: **vectors, similarity, 3D coordinates.**
- ▶ Higher - The following content will now be assessed in the question papers in session 2022-23: **vectors, recurrence relations.**
- ▶ ADVH Mathematics - The following content will now be assessed in the question papers in session 2022-23: **finding the asymptotes to the graphs of rational functions, investigating features of graphs and sketching graphs of functions, calculating a vector product, working with lines in three dimensions, working with planes.**
- ▶ ADVH Mechanics - The following content will now be assessed in the question paper in session 2022-23: **using moments to find the centre of a mass of a body, determining the turning effect of force.**



Notional Boundaries

Band	Estimated performance	Notional % range
1	Grade A (upper)	85 – 100
2	Grade A (lower)	70 – 84
3	Grade B (upper)	65 – 69
4	Grade B (lower)	60 – 64
5	Grade C (upper)	55 – 59
6	Grade C (lower)	50 – 54
7	Grade D	40 – 49
8	No Award	30 – 39
9	No Award	0 – 29

- ▶ The above SQA notional boundaries are what we use for prelims.
- ▶ The SQA can alter these boundaries depending on National exam performance.



Course Outlines

- ▶ All courses are split into 3 blocks of work.
- ▶ All classes will complete 1 mini-assessment per month as part of retrieval practice except from prelim months i.e. Nov, Dec/Jan & Mar
- ▶ All classes will be issued with a formal homework for each topic of their course.
- ▶ 3 prelims during the year - Nov (1/3 course pre-prelim), Dec/Jan (2/3 course main prelim) & Mar (full course final prelim).



Revision Resources

- ▶ Microsoft Teams used by Dept. for all levels where revision resources will be shared but also where pupils are able to ask questions.
- ▶ Dept. will try to respond to questions in a timely manner or use these questions in class to aid learning.
- ▶ Pupils are issued with a blue **evidence jotter** where they should complete any revision.
- ▶ Regular **revision of past paper questions** is best form of revision.
- ▶ Dept. will issue **Past Paper Frequency Grids** highlighting questions related to each topic.
- ▶ Dept. will issue **14 week plans** to classes prior to prelim and final exam.
- ▶ Plans consist of approx. 3 questions per night and 1 past paper per week to aid pupil revision.
- ▶ Pupils will be given past paper checklist and reflections document to complete to allow them to track their progress.
- ▶ Pupils should be aiming for **marginal gains** on a weekly basis approx. 5% more per week.



Useful Websites

- ▶ National5maths.co.uk - has links for National 5, National 5 Applications of Maths & Higher Maths.
 - ▶ Username: [hyndland](#)
 - ▶ Password: [maths123](#)
- ▶ [Armadale Maths](#) - excellent topic by topic resources for National 5 & Higher.
- ▶ [SPTA Maths](#) - excellent revision resources as well as practice papers which are used in 14 week plans.
- ▶ [Larbert Flipped Learning](#) - video lessons for National 5 & Higher.
- ▶ You Tube ([DLB Maths](#)) - fully worked solutions of past paper questions.
- ▶ [Rigour Maths](#) - Links to video lessons and self marking quizzes can be shared by class teacher.



Study Tips for Parents/Carers

- ▶ Be positive and encourage regular revision.
- ▶ Provide or direct your child to a quiet place to study.
- ▶ Support them to make a realistic revision plan with time set aside for relaxation and exercise
- ▶ Be involved in their revision; ask questions or quizzing them using flashcards.
- ▶ Encourage study without any distractions such as mobile phone, social media etc.
- ▶ Encourage and monitor attendance at supported study.
- ▶ Monitor your child's homework and ensure it is completed in a timely manner and to a good standard.
- ▶ Use advice provided in parental reports or parents evenings.



Study Tips for Pupils

- ▶ Start studying now!!
- ▶ Share your revision plan with your parents/carers to help them support you.
- ▶ Look after yourself; eat healthy food & snacks, form good sleep habits, drink plenty of fluids and relax/exercise.
- ▶ Speak to someone if you feel stressed - parent/carer, teacher, pastoral care or friend.
- ▶ Be disciplined and focussed to study without any distractions such as mobile phone, social media etc.
- ▶ Ensure that all tasks are completed on time and to a good standard.
- ▶ Use learner conversations, reports, formal homeworks and mini assessments to identify your next steps for learning.
- ▶ Practice past paper questions related to the topics covered in class on a regular basis to improve your retrieval of knowledge.
- ▶ Form a study good with your friends who will motivate and help keep you focussed.
- ▶ Make use of all the available support in class, on teams and at supported study.

