



Advice for Senior Pupils



Firstly, I would like to say well done to all pupils who have accessed the materials provided by the Department. Working on Maths from home in this manner is something we are all adjusting to and it has been a very positive start so far! Thank you also to parents and carers for helping us to support the pupils in home learning, your support is invaluable and greatly appreciated.

All Maths classes have been set up on Microsoft Teams as well as Show My Homework. Most of these were existing groups that have been in place all year and pupils should access them in the same way as always. If any pupil has been added to a new group and is having difficulty gaining access please do not hesitate to ask for support. Remember to check Microsoft Teams on a daily basis as lessons and activities being uploaded daily here.

After Easter it is our intention to begin working on Progress to the next course e.g. Progress to Higher. It is therefore essential that all pupils are able to access this new material, as staff will be available to provide support and guidance with any issues or concerns. In preparation for this it would be advisable that pupils work on aspects of the current course that will be of benefit in the next course.

National 4 progressing to National 5

It is essential that pupils moving onto National 5 from National 4 maintain a high level of Nat 4 basic skills. Some of the major topics in National 4 continue into National 5 and therefore pupils should revise the following topics before we commence Progress to National 5 after Easter. The main aspects to focus on are:

- Linear Patterns & Straight Line
- Pythagoras
- Expanding Brackets & Factorising
- Circle – area and circumference
- Trigonometry (SOH CAH TOA)
- Statistics
- Fractions & Percentages
- Integers

Pupils should use their revision materials for the Added Value Unit and can access further revision materials on the following websites:

1. Microsoft Teams
2. <https://www.national5maths.co.uk/free-national-4-maths/>
3. http://www.mathsrevision.com/index_files/Page2003.htm
4. <http://www.millburnacademy.co.uk/courses/s4/n4/>
5. <http://www.armadalemaths.com/resourcesfornational4mathematics>

National 5 progressing to Higher

It is essential that pupils moving onto Higher from National 5 (or resitting Higher) maintain a high level of Nat 5 basic skills. Some of the major topics in National 5 continue into Higher and therefore pupils should use revise the following topics before we commence Progress to Higher after Easter. The main aspects to focus on are:

- Straight line
- Quadratic Equations & Graphs
- Factorisation
- Expanding brackets
- Completing the Square
- Vectors
- Surds and Indices
- Function Notation
- Simultaneous Equations
- Trig Equations & Graphs

Pupils should continue to make use of their 14 week plan and can access further revision materials on the following websites:

1. Microsoft Teams
2. <https://www.national5maths.co.uk/free-national-5-maths-2/>
3. http://www.mathsrevision.com/index_files/National5.htm
4. <http://www.millburnacademy.co.uk/courses/s5/n5/>
5. <http://www.armadalemaths.com/resourcesfornational5mathematics>

Higher progressing to Advanced Higher

It is essential that pupils moving onto Advanced Higher from Higher maintain a high level of Higher basic skills. Some of the major topics in Higher continue into Advanced Higher and therefore pupils should use revise the following topics before we commence Progress to Advanced Higher after Easter. The main aspects to focus on are:

- Differentiation (including further differentiation, stationary points, curve sketching, optimisation)
- Integration (including further integration, differential equations and area)
- Domain and Range
- Vectors
- Trigonometry (including wave function)
- Logarithmic Functions

Pupils should continue to make use of their 14 week plan and can access further revision materials on the following websites:

1. Microsoft Teams
2. <https://www.highermathematics.co.uk/higher-maths-whole-course/>
3. http://www.mathsrevision.com/index_files/Higher.htm
4. <http://www.millburnacademy.co.uk/courses/s5/higher/>
5. <http://www.armadalemaths.com/resourcesforhighermathematics>

After Easter we will provide notes, practice materials and, where possible, instructional videos to help pupils work through the next topics at home. It is important that they spend as much time on this material as they would in school (6 periods per week plus homework). Staff will be on hand to help with any issues that may arise and we will support the pupils in any way that we can.

Good luck, work hard and above all else take care and be safe.

Kind regards,

Ross Henderson

PT Maths & Numeracy

Hyndland Secondary