

Firstly, I would like to say well done to all pupils who have accessed the materials provided by the Maths teachers. 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 with a Google Classroom or Microsoft Team. 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 both Google Classroom and Microsoft Teams.

After Easter it is our intention to begin working on upcoming topics as per the timeline for each level. It is therefore essential that all pupils are able to access this material from a class group as staff will be on hand to provide support to pupils and talk them through any issues or concerns with the new material. 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. This is detailed below for each level:

### **National 4 moving onto National 5**

Pupils should read notes and then work through practice on the following topics:

- Linear relationships
- Pythagoras
- Brackets
- Factorising
- The circle – area and circumference
- Trigonometry (SOH CAH TOA)

Pupils can find materials on our website

(<https://blogs.glowscotland.org.uk/er/SNHMathematicsWebsite/>), Google Classroom/Microsoft Teams or here: <https://www.national5maths.co.uk/free-national-4-maths/>

### **National 5 moving onto 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 the materials provided on Google Classroom/Microsoft Teams to revise before we commence Higher after Easter. The main aspects to focus on are:

- Equation of a straight line
- Solving quadratic equations
- Factorising
- Simplifying pairs of brackets
- Completing the Square
- Vectors
- Surds and Indices
- Function notation
- Simultaneous Equations

They can access the revision materials on our website (<https://blogs.glowscotland.org.uk/er/SNHMathematicsWebsite/>), <https://www.national5maths.co.uk/free-national-5-maths-2/> or [http://www.mathsrevision.com/index\\_files/National5.htm](http://www.mathsrevision.com/index_files/National5.htm)

### **Higher moving into Advanced Higher**

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

Pupils should access the materials freely available on <https://www.highermathematics.co.uk/higher-maths-whole-course/> as well as on individual Google classrooms/Microsoft Teams and or website.

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,

Mrs Margaret Gorman  
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