



# Transition to A level Mathematics: Essential Skills

## Transition Programme

Assignments will be posted weekly on Google Classroom for both internal and external students. They will consist of skills tests and activities that are designed to enrich. They will add depth to students' mathematical understanding and help them make a smooth and successful transition to A level Mathematics.

Students are expected to show all their working out and upload their solutions. I will take the lead in setting weekly assignments and ensuring that deadlines are being adhered to. Furthermore, the teachers in the Mathematics department will also play a key role in this initiative by being responsible for monitoring the quality of the work that is submitted by the students.

The transition Programme (TP) course consists of six sections: **Simplifying, Expanding Factorising, Rearranging, Solving, Sketching.**

These are essential skills students will use for the various problems they may encounter while studying A level mathematics.

Due to the pandemic, the students have missed a significant number of lessons. This means that there is a potential gap in knowledge which needs to be addressed. Therefore, an intervention is required to bridge the gap and ensure a smooth transition for students from GCSE to A level. We believe the students will benefit from an early intervention to and propose to start in **June**. The following are dates set for **GC tasks**.

		Upload	Submit
<b>Section 1A</b>	<b>Fractions</b>	<b>31/05/21</b>	<b>06/06/21</b>
<b>Section 1B</b>	<b>Indices</b>	<b>7/06/21</b>	<b>13/06/21</b>
<b>Section 1C</b>	<b>Surds</b>	<b>14/06/21</b>	<b>20/06/21</b>
<b>Section 2A</b>	<b>Factorising</b>	<b>21/10/21</b>	<b>27/06/21</b>
<b>Section 2B</b>	<b>Further Factorising</b>	<b>28/06/21</b>	<b>4/07/21</b>
<b>Section 2C</b>	<b>Completing the Square</b>	<b>5/07/21</b>	<b>11/07/21</b>
<b>Section 3A</b>	<b>Rearranging</b>	<b>12/07/21</b>	<b>18/07/21</b>
<b>Section 3B</b>	<b>Rearranging &amp; Factorising</b>	<b>19/07/21</b>	<b>25/07/21</b>
<b>Section 3C</b>	<b>Rearranging &amp; Fractions</b>	<b>26/07/21</b>	<b>1/08/21</b>

### **Optional**

		Upload	Submit
Section 4A	Linear Equations	02/08/21	08/08/21
Section 4B	Quadratic Equations	09/08/21	15/08/21
Section 4C	Other Equations	16/08/21	22/08/21
Section 5A	Linear Sketching	23/08/21	29/08/21
Section 5B	Quadratic Sketching	30/08/21	5/08/21
Section 5C	Other Sketching	6/09/21	12/08/21

The TP will consist of 3 core elements:

#### **1. Skills test.**

It will cover consolidation of GCSE Grade 8/9 material as well as AAE tasks introducing students to KS5 way of thinking. If students require or need more practice, they will use Hegarty or Century Maths to consolidate.

#### **2. (AAE) Practice and explore questions, slightly longer.**

Each set includes either written worked solutions, video solutions or links to websites.

#### **3. (AAE) Extension**

Extent and enrich activities. Longer problems, spotting patterns, making discoveries and providing reasoning why things happen. In every section on the final slide, the extension element will have some links to other videos. Articles that are interesting or provide a mathematical link to the real world or careers. The extension activity is targeted at **20%** of students or any other students who have a passion and interest for mathematics.