**Preparing for A Level Maths**

To help prepare you for A level mathematics, the following tasks have been created.

1. **Watch some new maths on numberphile**

The first of these is certainly relevant to the present crisis, the rest are some I thought would be fun to watch and think through. Please look at some of your own choice as well.

The Coronavirus Curve – Numberphile <https://www.youtube.com/watch?v=k6nLfCbAzgo>

The Josephus Problem – Numberphile <https://www.youtube.com/watch?v=uCsD3ZGzMgE>

Squaring Primes – Numberphile <https://www.youtube.com/watch?v=ZMkIiFs35HQ>

The Golden Ratio (why it is so irrational) – Numberphile <https://www.youtube.com/watch?v=sj8Sg8qnjOg>

Mesolabe Compass and Square Roots – Numberphile <https://www.youtube.com/watch?v=9VVPBS_flOI>

Beautiful Card Trick – Numberphile <https://www.youtube.com/watch?v=l7lP9y7Bb5g>

The Feigenbaum Constant (4.669) – Numberphile <https://www.youtube.com/watch?v=ETrYE4MdoLQ>

All the Numbers – Numberphile <https://www.youtube.com/watch?v=5TkIe60y2GI>

Chaos Game – Numberphile <https://www.youtube.com/watch?v=kbKtFN71Lfs>

The 10,958 Problem – Numberphile

Vid 1 <https://www.youtube.com/watch?v=-ruC5A9EzzE>

Vid 2 <https://www.youtube.com/watch?v=pasyRUj7UwM>

1. **Develop some concepts from GCSE**

There are some really nice tasks created by the people at Integral Maths. These tasks can be found in the coursework area on the Waseley Hills web site via Home Access +

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If you need the answers I can email them when you are ready.]

1. **Keeping those skills you been working on**

In the coursework area there are some questions for you to keep your skills honed.

Maths\A level Maths Bridging tasks\Practice Test

There is a word and pdf version.