**GCSE to AS Level Transition**

You will need a [Casio Classwiz FX-991EX](https://edu.casio.com/products/cwiz/fx991ex/index.php) for the course but it may also be useful to have this available for the lessons below to start to get used to it.

You will need to use [Pearson Active Learn](http://www.pearsonactivelearn.com) for the mixed exercises. An email with your username and password has been sent to your utc leeds email address.

You must be confident with the following topics from the GCSE course. Please do the topic assessments before you start the AS course.

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| **Topic** | **Assessment** |
| Types of Sampling | [Data Collection](https://naikermaths.com/wp-content/uploads/2018/02/Data-Collection.pdf)  [Answers](https://naikermaths.com/wp-content/uploads/2019/02/Sampling-Methods-1-SOLUTIONS.pdf) |
| Box Plots and Cumulative Frequency | [Box Plots](https://naikermaths.com/wp-content/uploads/2018/05/Boxplot.pdf)  [Answers](https://naikermaths.com/wp-content/uploads/2018/05/Boxplot-MARK-SCHEME.pdf)  [Cumulative Frequency](https://www.mathsgenie.co.uk/resources/6-cumulative-frequency.pdf)  [Answers](https://www.mathsgenie.co.uk/resources/6-cumulative-frequencyans.pdf) |
| Index Laws including Neg & Fractional | [Rules of Indices](https://docs.google.com/document/d/129u-1QG30Y1JXjbqOM323XBjGKsaw23Fy2jEz9Xj4KY/edit?usp=sharing) (answers on the last page) |
| Algebraic Expressions: Expanding Brackets & Factorising Expressions | [Expanding Brackets & Simplifying Expressions](https://docs.google.com/document/d/18puwE0EruzpTjb4pbrKokbTsJ9u5vsTqWV5IVrRtlZU/edit?usp=sharing) (answers on the last page) |
| Surds & Rationalising Denominators | [Surds & Rationalising the Denominator](https://docs.google.com/document/d/17D1LKdgV03S5KvKfv9oHjS82AIaSsqO1XZ1a1vcLxr8/edit?usp=sharing) (answers on the last page) |

These topics we will be running live lessons on during the summer half term. You must be confident with these topics to start the AS course as all will be built upon. Please try to attend as many of the live lessons as possible and ensure you have completed all the assessments before starting the AS course in September.

**Pure Lessons**

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| **Topic** | **Teacher** | **When?** | **Access** | **Assessment** |
| Solving Quadratic Equations | Mr Russell | *Provisionally*  w/c Mon 15th June | Google Classroom (f7jid2) & [Live Meet](https://meet.google.com/lookup/cceox2uxxd) | [Factorising Quadratic Expressions](https://docs.google.com/document/d/1fsa3lx6O_7l7j6qC3vaITWzEtmJXbmlPQSJSSX_vmV0/edit?usp=sharing)  [Completing the Square](https://docs.google.com/document/d/14FT8E_-okUjcZrgni37D-eFDieMNQHCIu0vADkicS-A/edit?usp=sharing) |
| Completing the Square | Mr Russell | *Provisionally*  w/c Mon 15th June | TBC |  |
| Functions | Mr Russell | *Provisionally*  w/c Mon 22nd June | TBC |  |
| Simultaneous Equations (Linear) | Mr Russell | *Provisionally*  w/c Mon 22nd June | TBC |  |
| Simultaneous Equations (Quadratic) | Mr Russell | *Provisionally*  w/c Mon 22nd June | TBC |  |

**Statistics Lessons**

All assessments use the Statistics and Mechanics Year 1 AS Textbook.

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| **Topic** | **Teacher** | **When?** | **Access** | **Assessment** |
| Measures of location and spread: Mean and Standard Deviation | Mrs Bennett | Friday 19th June  12:30pm | Google classroom (f7jid2) & [Live Meet](https://meet.google.com/kbc-oyot-xen) | Mixed Exercise 2  Questions 1, 4, 5, 6, 7, 8, 9, 10 |
| Measures of location and spread: Interpolation | Mrs Bennett | Friday 3rd July  12:30pm | Google classroom (f7jid2) & [Live Meet](https://meet.google.com/kbc-oyot-xen) |
| Venn Diagrams | Mrs Bennett | Friday 10th July  12:30pm | Google classroom (f7jid2) & [Live Meet](https://meet.google.com/kbc-oyot-xen) | Mixed Exercise 5: Q 5, 6, 7, 8, 9, 10 |

**Be prepared!** Please come to your first Maths AS Lesson with a ring binder (a double one will eventually be needed but you could have 2 single ones) with dividers and your assessments (including working out) from above completed.