

Subject	Year 11 Threshold Concepts – Spring Term	How to support students' learning
Mathematics	<p><u>Statistics</u></p> <ul style="list-style-type: none"> • Present data using bar charts, pie charts, frequency polygons, stem and leaf diagrams • Calculate averages and explain their advantages and disadvantages • Design questionnaires and describe methods of sampling • Understand time series • Draw and interpret scatter graphs • Draw and interpret box plots, cumulative frequency curves and histograms (Higher tier only) <p><u>Number</u></p> <ul style="list-style-type: none"> • Multiplication and division • Factors and multiples • Highest common factor and lowest common multiple • BIDMAS 	<ul style="list-style-type: none"> • At home you can help support your child with revision using www.mathswatch.co.uk and www.mymaths.co.uk (see your teacher for login and password) and in completing past papers on a weekly basis. • Encourage your child to be accurate when drawing charts and diagrams <ul style="list-style-type: none"> • Encourage your child to practise their times tables up to 15 at home and learn the square and cube numbers. • When completing past papers check that your child is showing all their working out and setting their work out correctly.
	<p><u>Probability</u></p> <ul style="list-style-type: none"> • Basic probabilities and expectation • Listing outcomes and sample space diagrams • Relative frequency • Frequency trees • Two way tables • Use simple set notation • Use tree diagrams • Construct and interpret Venn Diagrams (Higher tier only) 	<ul style="list-style-type: none"> • At home you can help support your child with revision using www.mathswatch.co.uk and www.mymaths.co.uk (see your teacher for login and password) and in completing past papers on a weekly basis.

- Solve problems involving conditional probability (Higher tier only)

Surds and Indices

- Calculate squares, cubes and their roots
- Use index laws with integer powers
- Use index laws with fractional and negative powers (Higher tier only)
- Manipulate surds (Higher tier only)
- Use surds to give answers in exact form (Higher tier only)
- Rationalise the denominator (Higher tier only)

Estimation and Approximation

- Review rounding and truncating
- Calculate upper and lower bounds (Higher tier only)
- Solve problems involving bounds (Higher tier only)

- At home you can help support your child with revision using www.mathswatch.co.uk and www.mymaths.co.uk (see your teacher for login and password) and in completing past papers on a weekly basis.