

## Year 10 Maths

### Learning Programme 4

Reading texts that pupils will study during the learning programme

Logic for LP4 is Initiative

<p>The value we are learning about is <b>Justice and Integrity</b>:</p> <p><b>Justice</b>- Fair behaviour or treatment</p> <p><b>Integrity</b>- Being honest and having strong moral principles</p> <p><b>What will I be learning about in this Learning Programme?</b></p> <p>Percentages &amp; interest, probability, collecting, representing and interpreting data, non-calculator methods.</p> <p><b>Where have I seen this learning before?</b></p> <p>fraction, decimal and percentage conversion, percentage increase &amp; decrease, averages, plotting co ordinates</p> <p><b>What could I use it for?</b></p> <p>in combination with other topics to solve multi step problems in KS4.</p>	<p>Problemsolving questions on percentages, two way tables and scatter graphs</p>
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In LP4.1, I will know:	11/03/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
<p>how to calculate repeated percentage change;</p> <p>how to find the original value;</p> <p>how to solve problems involving growth and decay.</p>			Multiplier, original value	complete mathswatch clip numbers 109, 110
In LP4.2, I will know:	18/03/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
<p>how to find probabilities;</p> <p>how to find probabilities from frequency trees;</p> <p>how to find probabilities from two way tables.</p>			Frequency tree	complete mathswatch clip numbers 57, 59, 61
In LP4.3, I will know:	08/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
<p>how to construct and interpret tree diagrams;</p> <p>how to construct and interpret Venn diagrams.</p> <p>Extended Task</p>			Independent, Conditional, Venn diagram	complete mathswatch clip numbers 127, 151, 175, 185
In LP4.4, I will know:	15/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
<p>how to construct frequency polygons;</p> <p>how to construct and interpret pie charts;</p> <p>how to construct and interpret histograms.</p>			Frequency polygon	complete mathswatch clip numbers 65, 128, 205
In LP4.5, I will know:	22/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
<p>how to construct and interpret time series graphs;</p> <p>how to construct and interpret stem and leaf diagrams;</p> <p>how to construct and interpret cumulative frequency diagrams.</p>			Cumulative frequency, upper quartile, lower quartile, interquartile range	Revision for assessment
In LP4.6, I will know:	29/04/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
<p>how to prepare for an assessment;</p> <p>assessment.</p> <p>Extended Task</p>				complete mathswatch clip numbers 128, 153, 186
In LP4.7, I will know:	06/05/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
<p>how to construct and interpret box plots;</p> <p>how to construct and interpret scatter graphs;</p> <p>how to construct and interpret scatter graphs.</p>			correlation, extrapolation	complete mathswatch clip numbers 129, 187
In LP4.8, I will know:	13/05/24 - (WK 2)	PR Focus	Key Vocabulary	Homework
<p>how to use the four rules of fraction arithmetic;</p> <p>how to estimate answers to calculations;</p> <p>how to work with surds.</p>			Estimate, surd	complete mathswatch clip numbers 71, 73, 74, 91, 207

**Resources to support learning:**

Students will be given login details by their class teacher. Homework will be linked to clip numbers on this website.

**FFET Award Challenge for this Learning Programme:**

Attend an extra-curricular club, represent the academy at an event, attend an enrichment day, receive a subject praise postcard, attend a day trip, attend a head of year breakfast or afternoon tea, achieve 100 positive points on class charts, receive a letter of commendation from SLT, be invited to a wonderful Wednesday, receive a principals letter or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.

