



<b>Resources available</b>	Maths Watch Clip 196, 214, 215	Maths Watch Clip 143, 216	Maths Watch Clip 37, 102, 103, 163, 213	Before any assessments are completed, revision and guidance materials are provided for students to assist in independent study.
Notes <b>Why this topic is important...</b>	The unit starts with students knowing how to substitute into $f(x)$ before extending this to compound and inverse functions. The conceptual aspects of this unit should be covered cementing earlier skills looking at excluded and undefined values. This lays work for understanding answers at KS5 and graphical asymptotes.	The unit starts with students needing to recall gradient and simple areas questions for time series before moving to variable rate changes. The use of tangents and the introduction to the trapezium rule should allow students to develop this further in KS5 to integration.	The unit starts with students understanding that sequences have a link and how this can be used to find the next term from linear sequences. This is then moved to an algebraic form to allow a wide range of values to be found with ease. The use of the $n$ th term to establish if a number is or is not in a given sequence provides the first elements to proof.	This is an important point in the curriculum plan that enables individual teachers to review the gaps in learning for the classes they teach. The half-termly assessments are used to track students' progress and enable teachers to react quickly to any gaps in knowledge and prepare students for the next assessment. The feedback and modelling of the exam answers enables students to pick up exam techniques and the ability to communicate effectively.