

Islip Manor High School

Scheme of Learning Overview



This scheme of learning has been designed to ensure that you make progress, develop, and master key knowledge, skills, and ideas through academically rich content that reflects, values, and celebrates the diverse experiences, identities, and contributions of our school community.

Year group: 9 (Higher)	Term: Autumn	Unit duration: 2 weeks	Unit title: Unit 2c - Sequences		
Unit assessment: End of Unit Assessment					
Fertile question: Do all equations always have a solution?					
Key skills/concepts/knowledge that students should cover			Start RAG	End RAG	Literacy. Key vocabulary/subject terminology that students should cover:
• Recognise simple sequences including at the most basic level odd, even, triangular, square and cube numbers and Fibonacci-type sequences; • Generate sequences of numbers, squared integers and sequences derived from diagrams; • Describe in words a term-to-term sequence and identify which terms cannot be in a sequence; • Generate specific terms in a sequence using the position-to-term rule and term-to-term rule; • Find and use (to generate terms) the <i>n</i>th term of an arithmetic sequence; • Use the <i>n</i>th term of an arithmetic sequence to decide if a given number is a term in the sequence, or find the first term above or below a given number; • Continue a quadratic sequence and use the <i>n</i>th term to generate terms; • Find the <i>n</i>th term of quadratic sequences; • Distinguish between arithmetic and geometric sequences; • Recognise and use simple geometric progressions • Continue geometric progression and find term to term rule, including negative, fraction and decimal terms; • Solve problems involving sequences from real life situations.					Sequence Fibonacci Term-to-term Position-to-term <i>n</i>th term Arithmetic Geometric Quadratic Progression Suggested materials teachers could/should use: Mathsbox, corbettmaths, mathsgenie, DrAustinMaths Mini whiteboards
Stretch. Key skills/concepts/knowledge that students should cover					
Apply knowledge and skills to exam-style questions.			Key home learning tasks students should complete: SPARX Maths		