Year 7	Unit 6	21 Lessons

Aims: Introduce students to the language and concepts of probability. Develop students' reasoning skills with sequences and investigating special types of sequences.

Key Skills	Literacy Links:	Numeracy Links:
Understand the language of algebra and how to write an expression. Know how to substitute numbers into an expression. Be able to solve an equation. • **Excellence** – Compare theoretical and experimental probabilities. Identify bias. Finding the nth term of quadratic sequences. • **Secure** – Find the probability of an event from data in a table, calculate theoretical probabilities from worded problems. Organising data into a Venn diagram and using it to calculate probabilities. Using and finding the nth term of linear sequences. • **Developing** - Determine the theoretical probability of simple events, systematically find all possible outcomes of an event, understand relative frequency as an estimate of probability. Using and finding term-to-term rules of sequences. **Emerging** - classify events on the probability scale, describing number sequences by finding the next term and rule.	Key words: Theoretical, experimental, outcomes, scale, term (in the context of sequences), rule, arithmetic, geometric, quadratic, Fibonacci.	Embedded throughout.

Assessment	Cross-Curricular Links
	Recognising patterns in data as collected in science and geography.
Pre-test at the beginning of the unit to establish prior learning, post-test at the end of the unit to determine progress.	**SMSC opportunities and British values**

Opportunities for further learning
Mymaths sections on probability and venn diagrams in the PROBABILITY category as well as sequences in the ALGEBRA category.