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| **Unit A1**  **Sequences** | **Year 8 Road Map** | | | |
| In this unit you will learn about Sequences.  **S**: Support  **C**: Core  **E**: Extension |  | | | |
| **Differentiation** | **Learning Goals/Outcomes/Content** |  |  |  |
| S | Use mapping or function machines to generate missing input, output or function |  |  |  |
| S | Use Term-to-term rules to find missing terms of sequences (A3.1, A4.1) |  |  |  |
| S | Generate sequence from its term-to-term rule (A4.1, A5.1) |  |  |  |
| C E | Generate non-linear sequences, e.g., Fibonacci sequences; square and cube number sequences, triangular numbers |  |  |  |
| S C E | Generating sequences from its nth term (A4.1, A5.1) |  |  |  |
| C E | Finding the nth term of sequences and use it to find missing terms (A4.1, A5.1) |  |  |  |
| S C E | Generate sequences from practical context and use it to solve problems |  |  |  |
| E | Generate missing terms of a quadratic sequence |  |  |  |
| C E | Use nth term formula with ICT to generate sequences (A4.3, A5.1) |  |  |  |
| E | Use the nth term to decide if a number is a term in a sequence or not |  |  |  |
| S C E | Solving unstructured problems. |  |  |  |