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| **Core Knowledge Map** | | | |
| Subject: Mathematics | Year: 7 | | Term: Autumn 1 |
| What are we learning? | | | |
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| How will I be assessed | | | |
| Topic Test at the end of the unit. | | | |
| Big questions: | | | |
| How is a linear sequence different to a non-linear sequence?  What do you look for in a sequence to tell you if it is a linear sequence?  How would you explain the difference between an arithmetic and geometric sequence?  Do geometric sequences always grow faster than arithmetic sequences? | | | |
| How does this build on previous learning? | | How will this link to my future learning? | |
| Pattern spotting from KS2  Finding differences by using subtraction.  Addition and multiplication.  Plotting coordinates. | | Generating sequences by using algebraic rules.  Finding algebraic rules for linear sequences. | |
| Core knowledge: | | Key vocabulary: | |
| Linear or arithmetic sequence – constant difference between terms.  A linear sequence is a straight line in graphical form.  A non-linear sequence is a curved line in graphical form.  Geometric sequence – constant ratio between terms.  Fibonacci sequence – add two previous terms to generate the next term. | | Sequence  Term  Position  Rule  Term-to-term  Linear  Non-linear  Arithmetic  Geometric  Fibonacci | |
| Need more help? Use the Sparx Independent Learning Codes above | | | |