

Topics in this cycle: Lower Core Upper	Taught: SUMMER 1	Year Group: 8
Key knowledge/concepts to be learnt ('Tell me about...')		Websites/blogs/YouTube links and further reading to deepen and consolidate learning
<p>Sequences</p> <ul style="list-style-type: none"> • Generating sequences • Extending sequences • Special sequences • Position-to-term rules • Finding the nth term <p>Fractions and percentages</p> <ul style="list-style-type: none"> • Comparing fractions • Fractions of amounts • Adding and subtracting fractions • Fractions and percentages • Calculating percentages • STEM: Percentages and proportion <p>Calculating with fractions</p> <ul style="list-style-type: none"> • Adding and subtracting fractions • Multiplying fractions • Fractions, decimals and reciprocals 		<p>https://youtu.be/2vZAiAHa2GY</p> <p>https://youtu.be/9F731gSjtVk</p> <p>https://youtu.be/CNgBY9e5-7I</p> <p>https://youtu.be/xhh3vyVhudaU</p>

- Dividing fractions
- Calculating with mixed numbers

Straight-line graphs

- Direct proportion on graphs
- Gradients
- Equations of straight lines
- STEM: Direct proportion problems

Probability

- Comparing probabilities
- Mutually exclusive events
- Estimating probability
- Experimental probability
- Probability diagrams
- Tree diagrams

Scale drawings and measures

- Maps and scales
- Bearings
- Scales and ratio
- Congruent and similar shapes

<https://youtu.be/pXnyxf55nJU>
<https://youtu.be/tRTk9vG0nwM>

<https://youtu.be/tfik2gT1xa4>
<https://youtu.be/9RdY5DAcxUI>
<https://youtu.be/PYEvSuz1Dxo>

<https://youtu.be/mlIZSiZPco>

<ul style="list-style-type: none">Solving geometry problems	
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Key Vocabulary and Definitions To Be Learnt		What Will The Assessment Look Like?
Arithmetic sequence	A sequence where the following terms are found by adding or subtracting the same number	
Term-to-term rule	Is a rule used to get from one term to the next	

