Home-School Learning Collaboration - Mathematics



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	
Sequences		https://youtu.be/2vZAiAHa2GY	
 Generating sequences Extending sequences Special sequences Position-to-term rules Finding the nth term 			
 Fractions and percentages Comparing fractions Fractions of amounts Adding and subtracting fractions Fractions and percentages Calculating percentages STEM: Percentages and proportion 		https://youtu.be/9F731gSjtVk	
Calculating with fractions			
 Adding and subtracting fr Multiplying fractions Fractions, decimals and r 		https://youtu.be/CNgBY9e5-71 https://youtu.be/xhh3vyVhuaU	

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- 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

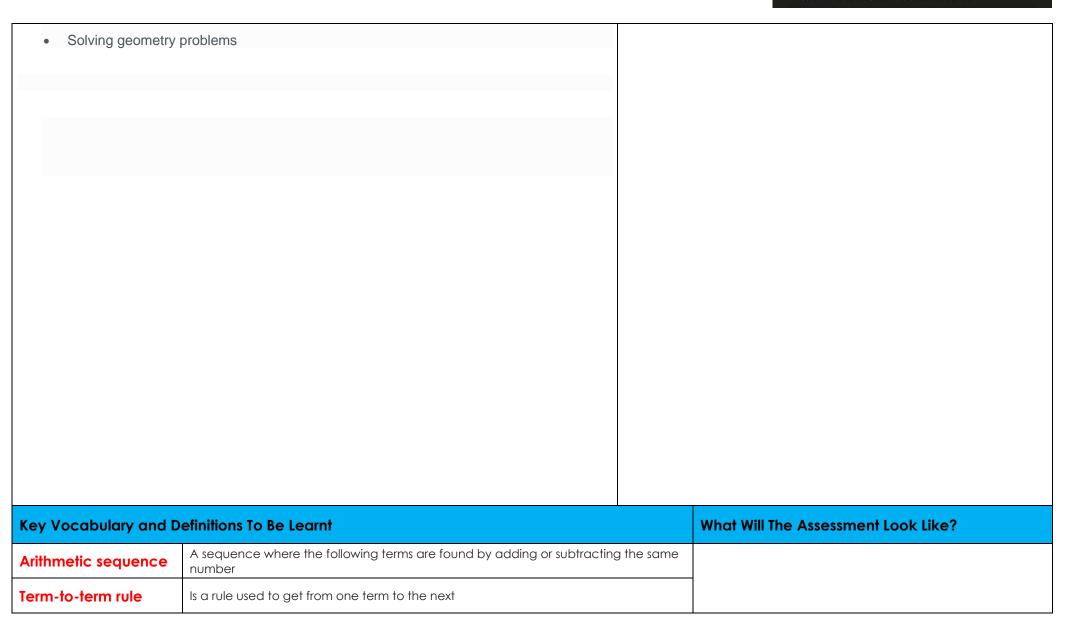
https://youtu.be/tfik2gT1xa4

https://youtu.be/9RdY5DAcxUI

https://youtu.be/PYEvSuz1Dxo

https://youtu.be/mllZSilZPco

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ERDINGTON

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Consecutive numbers	Numbers that follow one another continuously, without any gaps	
Geometric sequence	A sequence where the following terms are found by multiplying or dividing by the same number	
Lowest common denominator	The smallest number that is divisible by all denominators	Family Learning Opportunities
Reciprocal	Two numbers are their reciprocals when their product is 1	

ACADEMY