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

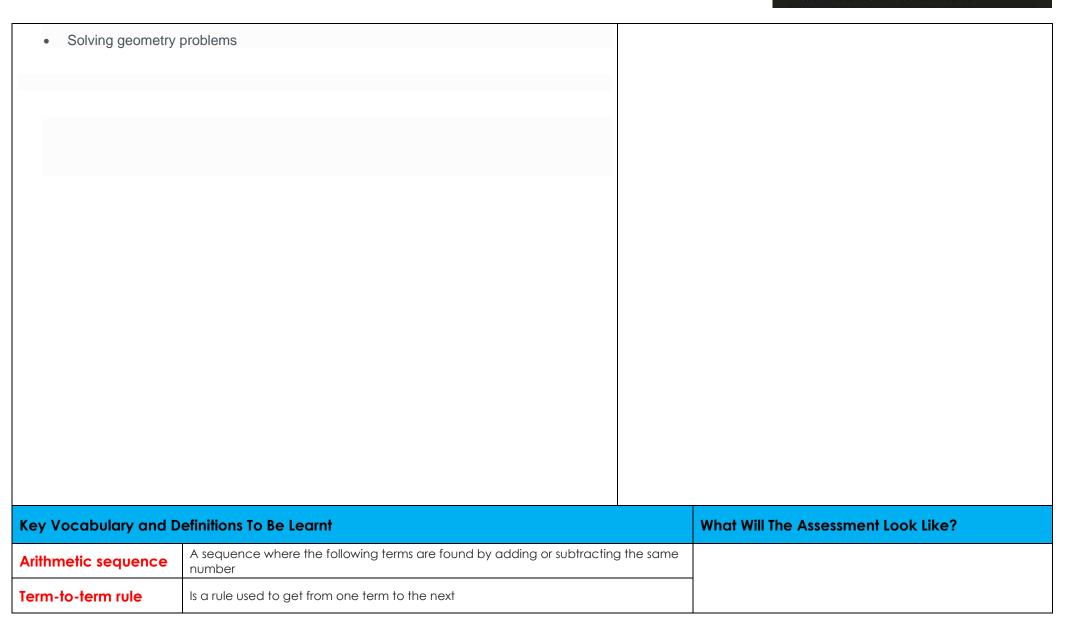
https://youtu.be/tfik2gT1xa4

https://youtu.be/9RdY5DAcxUI

https://youtu.be/PYEvSuz1Dxo

https://youtu.be/mllZSilZPco

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| 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 | |
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