

## Proportional Reasoning and Sequences

<b>Year group 8</b>	
<b>Prior learning- linked to National curriculum</b>	
<b>Rationale</b>	
<b>Vocabulary:</b>	<b>Keywords</b> Equivalent, Simplify, ratio, proportion, currency, conversion, term, pattern
<b>Cultural Capital:</b>	Proportional reason is applied in everyday contexts when converting between different currencies, understanding best buy problems and assessing the value of different deals offered. Ratio enables students to relate different quantities in a more nuanced way and share values in a variety of ways. The purpose of sequences is to train students in spotting patterns, often the application is to numbers, but the skills are far broader than this.
<b>Key assessments- name the assessments</b>	Mini Assessment for: <ul style="list-style-type: none"> <li>● Simplifying ratio and sharing into given parts</li> <li>● Calculating quantities using direct proportion</li> <li>● How to describe a sequence using the nth term.</li> </ul> In addition for this a Unit wrapper for this Term.
<b>What do children know/ can do now (EDSM)</b>	Emerging students will: Simplify ratios, calculate direct proportion and describe Sequences in numbers Developing students will: Share in a ratio, Use conversion Graphs, and calculate Term to term rules Secure students will Use a ratio to find an unknown amount, use different Currency Conversion, and find Position to term rules. Mastered Students will: Solving proportion problems, Use direct proportion graphs, and use nth term for sequences of patterns


