

- Find a multiplier in a situation involving proportion.
- Plot the graph of a linear function.
- Understand the meaning of a compound unit.
- Convert between units of length, capacity, mass and time

Stage 9 - Proportional

reasoning



 Solve problems involving direct and inverse proportion, including a graphical and algebraic representations



- Direct proportion
- Inverse proportion
- Multiplier
- Linear-"resembling a line, of or pertaining to lines," 1640s, from French linéaire
- Congruent-early 15c., "suitable, proper, harmoniously joined or related," from Latin congruentem
- Congruence
- Similar
- Similarity
- Compound unit
- Density
- Population density
- Pressure

Proportional reasoning - Targets	Before Topic	After Topic	Teacher Mark
Know the difference between direct and inverse proportion and the features of each graph			
Distinguish between situations involving direct and inverse proportion			
Solve simple problems involving rates of pay			
Solve more complex ratio problems involving mixing or concentrations and unit pricing.			
Convert between compound units of speed, rates of pay, density and pressure			
Solve simple problems involving density and pressure			
Use the knowledge that speed is how far you travel in a second/hour and the unitary method to calculate speed, distances and times for journeys			
Be able to find missing values in speed, distance and time calculations			