Title : Direct and Inverse Proportion

Key Knowledge/Prior Learning KS2/3 and Retrieval and Suggested Starters

- Substitution
- Forming and Solving Equations

KS4 National Curriculum – what students will be practicing

- Solve problems involving direct and inverse proportion, including graphical and algebraic representations
- Understand that x is inversely proportional to \mathcal{Y} is equivalent to x is proportional to 1/y
- Interpret equations that describe direct and inverse proportion
- Recognise and interpret graphs that illustrate direct and inverse proportion

Specific Ambitious Knowledge

Finding the constant of proportion (usually k) for each equation

Learning the proportionality symbol (fish symbol)

Key Vocabulary/Literacy Opportunities

- Direct Proportion
- Inverse Proportion
- Forming and Solving Equations
- Varies
- (k) Constant of proportion



Maths in Context (Historical, Real Life and Student Thinking Points)

- <u>https://donsteward.blogspot.com/2013/01/faster-film-rates.html</u>
- <u>https://donsteward.blogspot.com/2013/01/physics-in-proportion.html</u>
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Projects/Enrichment/Investigations

• Triathlon and Fitness