

## Summer 1 - 'Health \& Leisure'

Subject Area Topic Reasoning with Proportion

## PYTHAGORAS' $\quad$ REASONING AND PROPORTION

- Find Squares and - Find Squares - Calculate the Calculate the
hypotenuse of a right angled triang - Calculate a shorter side of a right angled triangle - Use Pythagoras' on a coordinate grid
Summer similarity

Enlarge a shape a positive integer scale factor
Enlarge a shape a positive integer scale from a point factor

- Enlarge a shape a positive fractional scal factor
- Applying scale factors to find unknown lengths of similar shapes

SOLVING RATIO AND PROPRTION PROBLEM

- Understand and use direct proportion
- Plot and use direct proportion graphically
- Apply inverse proportion to solve problems
- Calculate an amount given a ratio
- Solve problems with ratio when given one part
Additional Higher Content
- Apply Pythagoras' Theorem to 3D problems
- Enlarge a shape a negative scale factor
- Solve problems with similar triangles
- Explore rations in right angle triangles
- Use graphs showing inverse proportion


## Summer 2 - ‘Crime \& Punishment’

Subject Area Topic Rate, Representation and Revision

| ASSESMENT | RATES |
| :---: | :---: |
|  | - To calculate speed, distance and time without a calculator |
|  | - To calculate speed, distance and time with a calculator |
|  | - Solve problems involving Density, Volume and Mass. |
|  | - Calculate rates and change and their units |

- To understand and use a probability line
- To recognize all probability can represent between 0 and 1
- To identify the probability of a single event occurring
- To identify the probability of a single event not occurring
Use sample space to calculate expected outcomes
- Calculate and use relative frequency
- Compound measures in Science

Additional Higher Conten

- Converting compound units
- Use Tree Diagrams
- Use Tree diagrams without replacement

