

Content - Big ideas

Huge Idea – To master core skills required in geometry, probability and data

Geometry

- Making sensible estimates of measurements
 Compound measures and units
- Conversions between metric and imperial units
- Dimensions

Data:

- Hypotheses
- Effective sample size
- Discrete and continuous data
- Pictograms, bar charts and pie charts for qualitative data
- Vertical line diagrams for discrete data
- Line graphs
- Group frequency
- Temperature charts
- Frequency polygons
- Scatter diagrams
- Averages for discrete ungrouped frequency

Probability:

- Vocabulary
- Probability scale
- Mutually exclusive events

Equally likely outcomes

Perimeter and Area

distribution

Surface area and volume

· Averages for grouped data Comparing distributions

Cumulative frequency

Box and whisker plots

Drawing conclusions

Measures of spread

Interpreting data

- Tree diagrams
- Listing outcomes

Exam Revision:

Big idea – To apply all knowledge learnt to past paper questions

Prior learning

KS3 Prior Learning

Global/IOM/Subject Links

Links to Science, Geography, D&T, computer science. Project work and real life application.

Subject specific skills development

- Modelling through abstract, concrete and pictorial methods.
- Use of manipulatives to secure a deeper understanding.
- Mental strategies for problem solving in context.
- Proficient use of a calculator
- Proficient use of geometrical equipment
- · Logical reasoning skills