MATHS PROGRESSIONS

Statistics

Key:

Counting (in intervals)

Reading & Writing Numbers

Identifying, Representing & interpreting data

Comparing data/graphical information

Application of shape, measure, fractions/percentages

Problem solving & Reasoning

Mental arithmetic and known facts

Drawing and plotting with accuracy

YEAR 6

- Interpret and draw pie charts using the correct methods (inc. known facts around internal angles / turn and fractions)
- Calculate the mean average from a set of values
- Explore the purpose of finding an average (investigate median and mode averages for comparison and efficiency)
- Problem solve within real-life multi-step scenarios; apply a range of measure, fractions, percentage, shape (angles) and number skills

YEAR 5

- Explain the reasons for trends in data and relate to real-life experience / contexts
- Select and accurately draw graphs relating to more than one set of data when a comparable representation would be appropriate (based on a line of enquiry)
- Interpret and complete tables and charts including timetables
- Solve increasingly more complex problems involving line graphs
- Compare and evaluate the effectiveness of specific charts and ways of recording/ presenting data
- Select the most appropriate method of recording the given data and justify/ reason the choice
- Make connections to other units (position and direction) when scaling the chart/ graph and improve accuracy of plotting /construction

YEAR 4

- Explore the sorting and classifying of data within Venn and Carroll diagrams
- Explore more complex scaling within charts
- Interpret and present discrete and continuous data using appropriate graphical methods (line graphs/time graphs)
- Use scientific lines of inquiry to present data and apply knowledge of graphical methods (change over time)
- Solve sum and difference problems using information presented in a range of charts

YEAR 3

- Construct, present and interpret data within bar charts, pictograms and tables
- Explore different simple scaling within charts; successfully draw charts based on given criteria
- Ask/ answer multi-step questions based on the data presented
- Begin to use Venn diagrams to sort information

YEAR 2

- Interpret and construct simple pictograms, tally charts and block diagrams
- Inquire about and evaluate the data presented in the diagrams
- Sort data and ask and answer questions based on the data presented
- Answer questions based on the totals and frequency within the categories

YEAR 1

RECEPTION