

Y9 Unit 5 Overview-Data Presentation and Analysis

Test window: 22nd June 2020 – 3rd July 2020

Target grade for tests:

You will learn about:

- Presenting data
- Measuring data: calculating averages



You will be able to:

- Interpret and construct tables, charts and diagrams, including frequency tables, bar charts, pie charts and pictograms for categorical data, vertical line charts for ungrouped discrete numerical data and know their appropriate use.
- Interpret, analyse and compare the distributions of data sets through appropriate measures of central tendency (median, mean and mode) and spread (range).

<p>Lesson Overview</p> <p><u>PRESENTATION OF DATA</u></p> <ul style="list-style-type: none">• Know the meaning of categorical data• Know the meaning of discrete data• Interpret and construct frequency tables• Construct and interpret pictograms (bar charts, tables) and know their appropriate use• Construct and interpret comparative bar charts• Interpret pie charts and know their appropriate use• Construct pie charts when the total frequency is not a factor of 360• Choose appropriate graphs or charts to represent data• Construct and interpret vertical line charts <p><u>MEASURING DATA</u></p> <ul style="list-style-type: none">• Understand the mode and median as measures of typicality (or location)• Find the mode of set of data• Find the median of a set of data• Find the median of a set of data when there are an even number of numbers in the data set• Use the mean to find a missing number in a set of data• Calculate the mean from a frequency table• Find the mode from a frequency table• Find the median from a frequency table• Understand the range as a measure of spread (or consistency)• Calculate the range of a set of data• Analyse and compare sets of data• Appreciate the limitations of different statistics (mean, median, mode, range)	<p>Key Words</p> <p>Refer to http://studymaths.co.uk/glossary.php for definitions of the key words</p> <p>Data, Categorical data, Discrete data Pictogram, Symbol, Key Frequency Table, Frequency table Tally Bar chart Time graph, Time series Bar-line graph, Vertical line chart Scale, Graph Axis, axes Line graph Pie chart Sector Angle Maximum, minimum</p> <p>Notation When tallying, groups of five are created by striking through each group of four</p> <p>Average Spread Consistency Mean Median Mode Range Measure Data Statistic Statistics Approximate Round</p>
--	--

Suggested reading or support/ challenge available



Support is available from a Maths teacher in 'MORALE' in M1 daily from 1:30pm -1:45pm

www.mymaths.co.uk
login: **penryn**
password: **octagon**

www.hegartymaths.com
Go to student login at the top... find your school, enter your details and then set up your password...

<https://vle.mathswatch.com/vle/>
login: school username followed by **@penryn-college**
password: **Penryn2016**

Use your revision guide
Use the code in the front of your guide to access your free online revision

www.justmaths.co.uk/online
login: **PenrynStudent**
password: **Penryn**

Cross curricular

SMSC:

- 1.1 Exploring, understanding and respecting cultural diversity e.g. exploration of different methods of multiplication (Chinese, Russian).
- 3.1 Developing personal qualities and using social skills (regular paired/ group work communication).
- 3.2 Participating, cooperating and resolving conflicts (paired/group activities).
- 4.2 Experiencing fascination, awe and wonder of mathematics.
- 4.4 Using imagination and creativity in learning

Literacy:

Verbal communication of understanding using key words in the correct context. Development of written communication of methods and strategies to problem solve.

NAC:

Science – Interpret and draw pie charts. Interpret and draw line graphs. Use averages and ranges to compare two sets of data. Understand and use the mode, the median and the range of a set of data

Technology – Interpret and draw pie charts

Business – Interpret and draw line graphs.

MFL – Interpret and draw pie charts

History – Interpret and draw pie charts

Geography – Interpret and draw pie charts. Interpret and draw line graphs. Use averages and ranges to compare two sets of data. Understand and use the mode, the median and the range of a set of data

Research	Note-making	Group work & discussion	Memorisation	Precision & accuracy	Independence	Reflection