## The Sutton Academy

## Knowledge Rich Curriculum Plan

Year 7 Support - Data and Statistics 2

## To learn how to draw pictograms.

- Students will know that a pictogram is a chart that uses pictures to represent data - Students will know that we use pictograms to represent data in a more interesting and engaging way that makes it more memorable.
- Students will know how to complete a pictogram given numerical values.
- Students will know how to use the key to find frequency values from a pictogram. Opportunity for challenge:
- Students will know how to interpret the data within a pictogram to answer simple questions.


## To learn how to draw stem

 and leaf diagrams.maintaining the
Students will know that we use stem and leaf diagrams to group all the data in to categories whilst still showing each individual result.

- Students will know to draw stem and leaf diagrams by splitting the tens and units column. The tens column becomes the 'stem' and the units become the 'leaf'.
- Students will know that stem and leaf diagrams must be in order to read them properly.
- Students will know that stem and leaf diagrams require a key so that the data can be interpreted correctly.

| To learn how to interpret | - Students will know that they must use the key to interpret the values on a stem and |
| :--- | :--- |
| stem and leaf diagrams. | leaf diagram, eg. $3 \mid 7=37$ and not just 7. | leaf diagram, eg. $3 \mid 7=37$ and not just 7 .

- Students will know how to read values from a stem and leaf diagram.
- Students will know how to find how many pieces of data are above or below a certain value.


## Opportunity for challenge:

- Students will know how to use fractions to represent how many pieces of data are above or below certain values.
- Students will know how to identify the median and mode from a stem and leaf diagram
- Students will know that two-way tables are ways
of each category can be seen quickly and easily
- Students will know how to complete a two-way table with given information using a mixture of adding and subtracting.
- Students will know how to fill in some values based on a worded problem and then complete two-way table using a mixture of adding and subtracting.


## Opportunity for challenge:

- Read and interpret values from a two-way table.

In order to know this

Sudents need to know how to
interpret a tally chart
Pictogram - a chart that uses pictures to represent data.

Mini-Assessment 13

Mini-Assessment 13

## data value is split into a "leaf" (usually the last digit) numbers.

and a "stem" (the other digits)

- Students need to know how to identify the value of a digit within a number
- Students need to know how to draw a stem and leaf diagram.

To learn how to complete two-way tables.


