



Mathematics Medium Term Plan

Year 6 Spring Term Unit 7 Statistics

NC

Interpret and construct pie charts and line graphs and use these to solve problems.

Calculate the mean as an average.

Focus: Statistics

Time: 2 weeks

Times Tables 5NF-1

Consolidate and practice all multiplication and division facts to 12x12 – any order, missing numbers, fractions.

Use multiplication and division facts to derive associated facts.

Develop multiplicative reasoning - links between multiplication, division and fractions.

Concept Sequence

Interpret and construct line graphs – read scales accurately. Link with Science. Continuous data not discrete data. More than one set of data on a graph. Use line graphs to solve problems – read scales carefully. Use graphs with more than one set of data. Secure knowledge of x axis, y axis and frequency/data terms.

Interpret dual bar charts – recognise importance of a key to aid interpretation. Revisit reading scales and estimating from number lines.

Read and interpret pie charts – link to fractions of amounts/angles. Know what the whole chart represents.

Pie charts and percentages – know that the whole chart represents 100%. Link percentages to fractions.

Draw pie charts – know that 100% represents 360°. Use a protractor. A standard protractor has a radius of 5cm – use circles of this size to aid construction. Use pie charts to solve problems

Calculate the mean – Apply addition and division skills. Use formula, mean = total ÷ number of items. Move to investigate missing data.

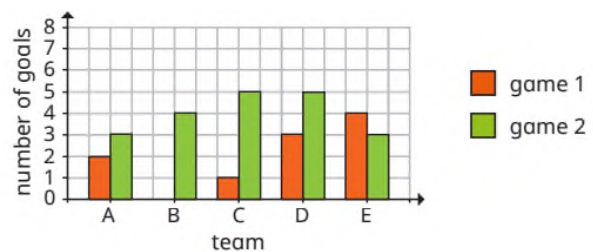
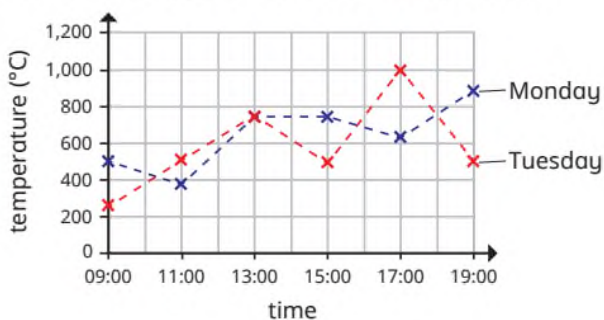
Existing Vocabulary

- Count, tally, vote, database, outcome
- Survey, questionnaire, data
- Graph, block graph, pictogram, Bar line chart
- Line graph
- Represent, group, set
- List, table, chart, bar chart, frequency table
- Carroll diagram, Venn diagram
- Label, title, axis (x and y), axes
- Diagram
- Maximum/minimum value
- Most popular/common, least popular/common
- Estimate, scales
- Percentage, fraction

New Vocabulary

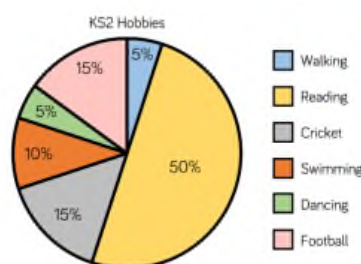
- Frequency, Pie chart
- Mean, average

The water consumption was recorded every 2 hours.



Resources

- Protractors, Gordons Maths Games,
- Mathletics, TTRockstars
- BBC Super Movers
- <https://www.bbc.co.uk/teach/supermove/rs/ks2-collection/zr4ky9q>



Planning Links

- Power Maths/Maths No Problem/Aspire Maths
- White Rose Scheme of Work: <https://assets.whiterosemaths.com/new-schemes/Year%206%20Spring%20Block%206%20SOL%20Statistics.pdf>