

Description:

Using a prepared Excel sheet to sort data in order to answer questions efficiently.

Numeracy Strategy reference:

Year 5
Handling data
Organising and using data
pg114

Task analysis:

Pupils are required to:

- Sort data within a prepared Excel sheet
- Use the rearranged data to answer questions.

Learning Objectives:

Solve a problem by collecting, organizing, representing, extracting and interpreting data in tables, graphs and charts.

Suggested activities:

Oral work and mental calculation:

Add and subtract the nearest multiple of 10, 100 and 1000 by rounding up
For example: $273+94=273+100-6=373-6=367$ $4007-1997=4007-2000+3=2010$

Teaching activity:

Introduce on screen the Excel spreadsheet of Famous Rivers of the World. Discuss as a class how it is organised and how the data might be rearranged to find information from it as quickly and efficiently as possible e.g. by sorting the rivers into order by their length. In their group, pupils should go on to rearrange the data by drag and drop, in order from shortest to longest and use it to find answers to the questions.

Plenary:

Discuss how data can be rearranged and what is the quickest/easiest method. Share answers and discuss how the data was used to find the answers. Demonstrate how the 'Sort' function of Excel could have been used to rearrange the data and how efficient this method is. Pupils could ask new questions for other pupils to answer from the data.

Resources:

River length printable activity sheets. River lengths Excel spreadsheet.

Learning outcomes:

Pupils should be able to:

- Use an Excel spreadsheet to sort data by different criteria.
- Analyse and interpret the sorted data to answer questions.

Extension activities:

Using the provided Excel spreadsheet on distances of planets from the sun, pupils should reorganise the data, nearest to furthest. Pupils can then draw up questions for others to answer as required.