

## MTH1004 Formative exercise for poster course-work

1. The file `ukgas.csv` on ELE (under Assessment -> Formative exercise) contains UK gas consumption data per year for each quarter. The unit of measuring gas amounts is millions of therms. Download the file and read it into an R data frame using the tidyverse command `read_csv`.
2. Which quarter has the highest median gas consumption?
3. For each quarter, calculate the difference in gas consumption between 1970 and 1975.
4. Create a line plot of gas consumption vs time with a separate line of a different color for each quarter.
5. Put all the results together on a small 1 page poster, using a word processor of your choice (e.g. MS Word, Apple Pages, LaTeX). Include a title, a section heading, the plot from question 4, and a short writeup that contains the results calculated in questions 2 and 3 as well as comments on the plot. You may add more information about the data to practice your data analysis writeup skills.
6. When finished, save the poster as a pdf.