

Student	Martin Pugsley	85%
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Part 1

	Available	Marks
Import data and generate data frame	5	2
Generate summary data frame with appropriate headers	15	12
Add correlation data to summary data frame	15	15
Calculate non-oxygen percentages and add to data frame	10	8
Commenting, white space and code presentation	5	5
TOTAL		42
Comments Be very careful with setwd commands; if you run a script using one on a different computer you can cause all sorts of problems. Good straightforward programming approach, although you could have used functions in some places. Good handling of absolute values for correlations. Good use of a function for CalculateOxygen, but you'd normally define it at the top of the script. Good commenting and use of white space.		

Part 2

	Available	Marks
Import data and generate data frame	5	2
Create summary data frame with descriptive statistics	15	11
Clean and normalise data	10	10
Perform t-test	5	5
Perform ANOVA test	10	10
Commenting and use of white space	5	5
TOTAL		43
Comments Using an external package is good, but needs to be more obvious in the comments. Again, be careful with setwd. Good rounding of summary data, but use the same number of decimal places. Good use of a function, but again it should be at the top of the script. Good thorough data preparation. Good t-test. Removing so many outliers have allowed you to get a statistically significant difference with the ANOVA; this is a double-edged sword in so far that you can change the nature of the dataset. Excellent use of graphics to support the ANOVA analysis.		