Park House School - Year 13 Core Maths Mock 2

Maths Assessment Manifest

- You will have 1 maths paper
- This is your paper 2a, will be 60 marks and take 1 hr 30 mins.

Checklist

Paper 2a

Topics	Red	Amber	Green
Criticise the arguments of others using mathematical reasoning			
Summarise data and write this information in a report			
Compare results from a model with real data and critically analyse data quoted in media, political campaigns and marketing			
Know that normal distribution is a symmetrical distribution and that the area underneath the normal 'bell' shaped curve represents probability			
Use the normal distribution notation in terms of mean and standard deviation			
Use tables to find probabilities for normally distributed data with known mean and standard deviation			
Understand what is meant by the term 'population' in statistical terms			
Develop ideas of sampling to include the concept of a simple random sample from a population			
Know that the mean of a sample is called a 'point estimate' for the mean of the population			
Calculate confidence intervals for the mean of normally distributed population of known variance using σ^2/n			
Recognise when pairs of data are uncorrelated, correlated, strongly correlated, positively correlated and negatively correlated			
Appreciate that correlation does not necessarily imply causation			
Understand the idea of an outlier			
Understand that the strength of correlation is given by the pmcc			
Understand that pmcc always has a value in the range -1 to +1			
Appreciate the significance of a positive, zero or negative value of pmcc in terms of correlation and data			
Plot data pairs on a scatter diagram and draw, by eye, the line of best fit through the mean point			
Understand the concept of a regression line			
Plot the regression line from its equation			
Use interpolation with regression lines to make predictions			
Understand the potential problems of extrapolation			
Where raw data is given, use a calculator to calculate the pmcc and the equation of the regression line			