

Red	Amber	Green
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Chapter 1: Data Collection: Chapter 1: Data Collection

S1 I understand 'population', 'sample' and 'census', and I can comment on the advantages and disadvantages of each			
S2 I understand the advantages and disadvantages of simple random sampling, systematic sampling, stratified sampling, quota sampling and opportunity sampling			
S3 I can define qualitative, quantitative, discrete and continuous data, and understand grouped data			
S4 I understand the large data set and how to collect data from it, identify types of data and calculate simple statistics			

Chapter 2: Measures of location and spread: Chapter 2: Measures of location and spread

S5 I can calculate measures of central tendency such as the mean, median and mode			
S6 I can calculate measures of location such as percentiles and deciles			
S7 I can calculate measures of spread such as range, interquartile range and interpercentile range			
S8 I can calculate variance and standard deviation			
S9 I can understand and use coding			

Chapter 3: Representations of data: Chapter 3: Representations of data

S10 I can identify outliers in data sets			
S11 I can draw and interpret box plots			
S12 I can draw and interpret cumulative frequency diagrams			
S13 I can draw and interpret histograms			
S14 I can compare two data sets			

Chapter 4: Correlation: Chapter 4: Correlation

S15 I can draw and interpret scatter diagrams for bivariate data			
S16 I can interpret correlation and understand that it does not imply causation			
S17 I can interpret the coefficients of a regression line equation for bivariate data			
S18 I understand when you can use a regression line to make predictions			

Chapter 5: Probability: Chapter 5: Probability

S19 I can calculate probabilities for single events			
S20 I can draw and interpret Venn diagrams			
S21 I understand mutually exclusive and independent events, and determine whether two events are independent			
S22 I can use and understand tree diagrams			

Chapter 6: Statistical distributions: Chapter 6: Statistical distributions

S23 I understand and use simple discrete probability distributions including the discrete uniform distribution			
S24 I understand the binomial distribution as a model and comment on appropriateness			
S25 I can calculate individual probabilities for the binomial distribution			
S26 I can calculate cumulative probabilities for the binomial distribution			

Chapter 7 : Hypothesis testing: Chapter 7 : Hypothesis testing

S27 I understand the language and concept of hypothesis testing			
S28 I understand that a sample is used to make an inference about a population			
S29 I can find critical values of a binomial distribution using tables			
S30 I can carry out a one-tailed test for the proportion of the binomial distribution and interpret the results			
S31 I can carry out a two-tailed test for the proportion of the binomial distribution and interpret the results			

Chapter 8: Modelling in mechanics: Chapter 8: Modelling in mechanics

S32 I understand how the concept of a mathematical model applies to mechanics			
S33 I can understand and am able to apply some of the common assumptions used in mechanical models			
S34 I know SI units for quantities and derived quantities used in mechanics			
S35 I know the difference between scalar and vector quantities			

Chapter 9: Constant acceleration: Chapter 9: Constant acceleration

S36 I can understand and interpret displacement-time graphs			
S37 I can understand and interpret velocity-time graphs			
S38 I can derive the constant acceleration formulae and use them to solve problems			
S39 I can use the constant acceleration formulae to solve problems involving vertical motion under gravity			

Chapter 10: Forces and motion: Chapter 10: Forces and motion

S40 I can draw force diagrams and calculate resultant forces			
S41 I understand and use Newton's first law			
S42 I can calculate resultant forces by adding vectors			
S43 I understand and use Newton's second law, $F = ma$			
S44 I can apply Newton's second law to vector forces and acceleration			
S45 I understand and use Newton's third law			
S46 I can solve problems involving connected particles			

Chapter 11: Variable acceleration: Chapter 11: Variable acceleration

S47 I understand that displacement, velocity and acceleration may be given as functions of time			
S48 I can use differentiation to solve kinematics problems			
S49 I can use calculus to solve problems involving maxima and minima			
S50 I can use integration to solve kinematics problems			
S51 I can use calculus to derive constant acceleration formulae			

Date:

Student Reflection:
Teacher Comment: