

## Chapter 1: Regression, correlation and hypothesis testing.: Chapter 1: Regression, correlation and hypothesis testing.

S1 I understand exponential models in bivariate data			
S2 I can use a change of variable to estimate coefficients in an exponential model			
S3 I understand and can calculate the product moment correlation coefficient			
S4 I can carry out a hypothesis test for zero correlation			

## Chapter 2: Conditional probability: Chapter 2: Conditional probability

S5 I can understand set notation in probability			
S6 I can understand conditional probability			
S7 I can solve conditional probability problems using two-way tables and Venn diagrams			
S8 I can use probability formulae to solve problems			
S9 I can solve conditional probability using tree diagrams			

## Chapter 3: The normal distribution: Chapter 3: The normal distribution

S10 I understand the normal distribution and the characteristics of a normal distribution curve			
S11 I can find percentage points on a standard normal curve			
S12 I can calculate values on a standard normal curve			
S13 I can find unknown means and/or standard deviations for a normal distribution			
S14 I can approximate a binomial distribution using a normal distribution			
S15 I can select appropriate distributions and solve real-life problems in context			
S16 I can carry out a hypothesis test for the mean of a normal distribution			

## Chapter 4: Moments: Chapter 4: Moments

S17 I can calculate the turning effect of a force applied to a rigid body			
S18 I can calculate the resultant moment of a set of forces acting on a rigid body			
S19 I can solve problems involving uniform rods in equilibrium			
S20 I can solve problems involving non-uniform rods			
S21 I can solve problems involving rods on the point of tilting			

**Chapter 5: Forces and friction: Chapter 5: Forces and friction**

S22 I can resolve forces into components			
S23 I can use the triangle law to find a resultant force			
S24 I can solve problems involving smooth or rough inclined planes			
S25 I understand friction and the coefficient of friction			
S26 I can use $F \leq \mu R$			

**Chapter 6: Projectiles: Chapter 6: Projectiles**

S27 I can model motion under gravity for an object projected horizontally			
S28 I can resolve velocity into components			
S29 I can solve problems involving particles projected at an angle			
S30 I can derive the formulae for time of flight, range and greatest height, and the equation of the path of a projectile			

**Chapter 7: Applications of forces: Chapter 7: Applications of forces**

S31 I can find an unknown force when a system is in equilibrium			
S32 I can solve statics problems involving weight, tension and pulleys			
S33 I can understand and solve problems involving limiting equilibrium			
S34 I can solve problems involving motion on rough or smooth inclined planes			
S35 I can solve problems involving connected particles that require the resolution of forces			

**Chapter 8: Further kinematics: Chapter 8: Further kinematics**

S36 I can work with vectors for displacement, velocity and acceleration when using the vector equations of motion			
S37 I can use calculus with harder functions of time involving variable acceleration			
S38 I can differentiate and integrate vectors with respect to time			

Date:

Student Reflection:	
Teacher Comment:	