



Subject		Year	Term
Further Maths		13	3
Topic			
Differential Equations, Recurrence Relations			
Content (Intent)			
Prior Learning (Topic)		Further Calculus, Transportation & Allocation Problems, Flows in Networks, Dynamic Programming, Decision Analysis	
<ul style="list-style-type: none"> Solving & interpreting differential equations Analyse strategies in Game Theory Solving & interpreting recurrence relations 			
Future Learning (Topic)		N/A	
What Knowledge and Skills will be taught (Implementation)		How will your understanding be assessed & recorded (Impact)	
<ul style="list-style-type: none"> Solve differential equations linked to various contexts, including simple harmonic motion, and damped oscillations. Solve second order recurrence relations and apply solutions to problems in context. Revision & exam prep core maths 		A Level Exams 9FM0/01, 9FM0/02 Formal Homework (Pure Maths & Decision Maths) Ongoing self-assessment	
Study leave		A Level Exams 9FM0/3D, 9FM0/4D	
How can parents help at home?			
Check assessment results and work completed in formal homework books. Encourage use of MyMaths (www.mymaths.co.uk) and MathsGenie (www.mathsgenie.co.uk) Regularly review previously taught topics			
Helpful further reading/discussion (including Reading and Vocabulary Lists)			
Textbooks (ISBN): Core Pure Mathematics Book 2: 9781292183343 Decision Mathematics 1: 9781292183299 Decision Mathematics 2: 9781292183305 Website: https://qualifications.pearson.com		Vocabulary Lists Homogeneous Auxiliary Function Non-homogeneous Complementary Function Oscillations Particular Integral Damping Harmonic Period	