JMAT KS5 Curriculum Map: Mathematics

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	**Pure Maths** a) Ch 1. Algebraic expressions b) Ch 2. Quadratics c) Ch 3. Equations and Inequalities d) Ch 4. Graphs and Transformations **Review and practice exam questions: chapters 1 - 4**	**Pure Maths** e) Ch 5. Straight Line Graphs f) Ch 6. Circles g) Ch 7. Algebraic Methods **Review and practice exam questions: chapters 5 - 7** **Statistics** a) Ch 1. Data collection b) Ch 2. Measures of location and spread c) Ch 3. Representations of data d) Ch 5. Probability	**Pure Maths** h) Ch 8. Binomial Expansion i) Ch 11. Vectors **Review and practice exam questions: chapters 1 - 8** **Statistics** e) Ch 4. Correlation and regression **Review and practice exam questions: chapters 1 - 5** f) Ch 6. Statistical distributions (including Binomial Distribution) g) Ch 7. Hypothesis Testing	**Pure Maths** **Review and practice exam questions: Chapter 11** j) Ch 9. Trigonometric ratios k) Ch 10. Trigonometric identities and equation **Statistics** **Review and practice exam questions: chapters 6 and 7** **Mechanics** a) Ch 8. Modelling in mechanics b) Ch 9. Constant acceleration	**Pure Maths** **Review and practice exam questions: chapters 9 and 10** l) Ch 12. Differentiation m) Ch 13. Integration **Statistics** **Review and practice exam questions: chapters 1 to 7** **Mechanics** c) Ch 10. Forces and motion **Review and practice exam questions: chapters 8 and 9**	**Pure Maths** **Review and practice exam questions: Chapters 12 and 13** n) Ch 14. Exponentials and logarithms **Y13 pure course:** a) Ch 1. Algebraic methods b) Ch 4. Binomial expansion **Mechanics** d) Ch 11. Variable acceleration **Review and full AS papers exam practice**

Year 13	**Pure maths** c) Ch 3. Sequences and series d) Ch 2. Functions and graphs e) Ch 5. Radians f) Ch 6. Trigonometric functions (sec x, cosec x and cotan x) **Review and practice exam questions: chapters 1 - 5** **Statistics** a) Ch 2. Conditional probability Review of Y12 Binomial Distribution and Hypothesis testing b) Ch 3. The Normal Distribution **Review and practice exam questions: chapter 2**	**Pure maths** g) Chs 6 and 7. Trigonometric identities, formulae, solving equations and modelling h) Ch 8. Parametric equations **Review and practice exam questions: chapters 6 and 7** **Statistics** c) Ch 1. Regression, correlation and hypothesis testing **Review and practice exam questions: chapters 1 and 3** **Mechanics** a) Ch 4. Moments	**Pure maths** i) Ch 9. Differentiation j) Ch 10. Numerical methods **Review and practice exam questions: chapters 8, 9 and 10** **Mechanics** b) Ch 5. Forces and friction c) Ch 6. Projectiles **Review and practice exam questions: chapters 5 and 6**	**Pure maths** k) Ch 11. Integration l) Ch 12. Vectors **Review and practice exam questions: chapters 11 and 12** **Statistics** **Review and practice exam questions: chapters 1,2 and 3** **Mechanics** d) Ch 7. Applications of forces e) Ch 8. Further kinematics **Review and practice exam questions: chapters 7 and 8**	**Review and full paper exam practice**	**Exam practice**