

**6<sup>TH</sup> YEAR APPLIED MATHS (H) WITH KIERAN MILLS  
ONLINE GRINDS PROGRAMME**

Session	Topic
1	UAM - Horizontal UAM & Vertical UAM (Free-fall)
2	UAM - Successive times/distances, Catch-up problems & Collisions
3	UAM - Velocity-time Graphs 1, Velocity-time Graphs 2 & Unusual LC Questions
4	Newton's Laws - The Four Forces 1 & 2
5	Newton's Laws - Connected Particles 1, 2 & 3
6	Newton's Laws - Pulleys 1, 2 & 3
7	Newton's Laws - Wedges 1 & 2
8	Projectiles - Horizontal Planes 1, 2 & 3 (Proving the Formulae)
9	Projectiles - Horizontal Planes 4 (Finding Angles) & 5 (i and j approach)
10	Projectiles - Inclined Planes 1 (incl. landing at right angles), 2 (incl. landing angles) & 3 (incl. compound angles)
11	Projectiles - Inclined Planes 4 (Proving the Formulae) & Projectiles and Elasticity
12	Collisions - Direct Collisions 1 & 2
13	Collisions - More than One Collision 1 & 2, Collisions with Strings and Direct Collisions with a Wall
14	Collisions - Oblique Collisions 1 & 2
15	Differential Equations
16	Differential Equations
17	Differential Equations
18	Differential Equations
19	Differential Equations
20	Differential Equations
21	CM & SHM
22	CM & SHM
23	CM & SHM
24	CM & SHM
25	CM & SHM
26	CM & SHM
27	Moments of Inertia
28	Moments of Inertia
29	Moments of Inertia