Assess your learning – **Projectiles** Rate your understanding of this chapter *(be honest!)*	🔴 No	🟠 Kinda	🟢 Yes	Revised for **Week 20 Exam**	Revised for **Week 30 Exam**
I can write down the 4 equations of motion for any projectile.					
I can use the 4 equations of motion to solve problems involving projectiles. E.g. A projectiles is fired from a point on horizontal ground with initial velocity of $20\vec{\imath} + 30\vec{\jmath}\, m/s$. Find: (i) its greatest height above the plane (ii) its range (iii) its velocity after 4 seconds					
I can solve abstract problems involving projectiles. E.g. A particle is fired with initial speed $u\, m/s$ at an angle of α to horizontal ground. Show that the greatest height reached will be $\dfrac{u^2 \sin^2 \alpha}{2g}$.					
I can solve problems involving particles striking a target. E.g. A particle is projected from a point O on horizontal ground at and angle of α to the horizontal. The initial speed is $20\, m/s$. It hits the top of a fence post which is $15\, m$ from O and $3\, m$ high. Find two values of α to the nearest degree.					