Assess your learning – Uniform Acceleration				Revised for <b>Week</b>	Revised
Rate your understanding of this chapter (be honest!)	No	Kinda	Yes	10 Exam	for Week 30 Exam
I can use the 4 equations of motion to solve problems, when given 3 of the 4 variables.  E.g. A car slows down from $80  m/s$ to $60  m/s$ over a seven second time interval.  (i) Find the deceleration and the distance travelled.  (ii) If the car continues to slow down at the same rate, how much further will it travel before coming to rest?					
I can solve problems using time-velocity graphs. E.g. A car accelerates at $2 m/s^2$ from rest to a speed of $60 m/s$ . It then travels at a steady speed for $40 s$ . It then decelerates to rest, covering a distance of $200 m$ while decelerating.  (i) Draw a velocity-time graph to show the car's motion.  (ii) Use your graph to find the average speed for the journey.					
I can solve problems involving particles passing successive points. <b>E.g.</b> A motorbike moving with constant acceleration passes three telegraph poles $A$ , $B$ and $C$ on a straight road. The distance from $A$ to $B$ is $50 m$ and from $B$ to $C$ is $120 m$ . The car takes 5 seconds to go from $A$ to $B$ and $A$ to $B$ and $A$ to $B$ to					
I can solve problems involving particles overtaking each other. E.g. At a certain moment in a triathlon race, Peter is $30m$ behind Kevin. Peter is cycling at $10m/s$ and accelerating at $1m/s^2$ . Kevin starts from rest and accelerates with acceleration $3m/s^2$ . After how long will Peter catch up with Kevin.					
I can solve problems involving particles falling freely under gravity. E.g. A pebble is thrown vertically upwards under gravity with a speed of $3\ m/s$ from the edge of a diving board that is $10\ m$ above the ground. Find the speed the pebble hits the ground.					
I can solve problems when variables are given, instead of actual values. E.g. A car has to travel a distance $s$ on a straight road. The car has maximum acceleration $a$ and maximum deceleration $b$ . It starts and ends at rest. Show that is there is a speed limit of $v$ $m/s$ , the time taken to complete the journey is $\frac{v}{2a} + \frac{v}{2b} + \frac{s}{v}$					