Assess your learning – Circular Motion Rate your understanding of this chapter *(be honest!)*	 No	 Kinda	 Yes	Revised for **Week 10 Exam**	Revised for **Mocks**
I can solve problems involving a mixture of linear speed and angular speed. E.g. A particle is moving in a circle with angular speed of $6\,rad/s$. If the velocity of the particle is $9\,cm/s$, find the radius of the circle of motion.					
I can solve problems involving particles moving in horizontal circles. E.g. A particle of mass $8\,kg$ is moving in a horizontal circle on a smooth table. It is connected by a light inextensible string of length $0.7\,m$ to a point that is $0.4\,m$ vertically above the centre of the circle of motion. The reaction force at the table is $30\,N$. Find the angular velocity and the tension in the string.					
I can solve problems involving vertical circles. E.g. A ring P of mass m is threaded on a smooth circular wire, with centre O and a radius r. The circular wire is fixed in a vertical position. The ring is projected horizontally with an initial speed of u from the lowest point on the wire. Find the value of u, so that the ring just makes it to the top of the wire.					
I can solve problems involving Hooke's Law. E.g. A particle of mass $2\,kg$ is attached to one end of an elastic string of natural length 1 m and elastic constant $40\,N/m$. The other end is attached to a fixed point on a smooth horizontal table. The particle begins to move in a circle of radius $3\,m$. Find its angular speed.					