Assess your learning – Work, Energy & Power Rate your understanding of this chapter *(be honest!)*	 No	 Kinda	 Yes	Revised for **Week 20 Exam**	Revised for **Week 30 Exam**
I can solve problems involving work done and power output of moving particles. E.g. A toboggan is pulled across horizontal ground by a pulling force of $120\ N$. The force makes an angle α, where $\tan\alpha = \frac{3}{4}$, with the ground. (i) If the toboggan moves a distance of $40\ m$, find the work done. (ii) If this took 90 seconds, find the power output.					
I can use the Law of Conservation of Energy to solve problems. E.g. A particle slides down a smooth surface which is inclined at an angle of $60°$ to the horizontal. It starts from rest and travels a distance of $15\ m$. Find its final speed.					
I can solve problems involving impulses. E.g. A sledge hammer of mass $5\ kg$ is used to drive a $2\ kg$ pole into the ground. The sledge, right before impact, has a downward velocity of $3\ m/s$. Find the speed of the pole immediately after impact, when the sledge has come to rest. Find, also, the imparted to the pole and the sledge.					
I can solve problems involving the principle of conservation of momentum. E.g. Two masses of $6\ kg$ and $2\ kg$ hang from a smooth pulley at the ends of a light inextensible string. The system is released from rest. After 3 seconds, the $6\ kg$ picks up a $3\ kg$ particle that is at rest; Calculate the new acceleration of the system.					