

Week beginning	Topics/Assessment objectives to be covered in class	Resources	✓ RAG	Flip tasks to prepare for next week	✓ RAG	Consolidation	✓ RAG	Student notes
31 Oct 2016	Newton's Law of Gravitation	A level physics text book. Class notes https://isaacphysics.org/ Exam Q's		Revise circular motion and Newton's laws of motion. Look at the nature of the centripetal force on a planet (link to gravitational force). Circular motion questions in text book.		Complete exam style questions. Questions on Isaac Physics and in text book.		
7 Nov 2016	Planetary motion	A level physics text book Class notes https://isaacphysics.org/ Exam Q's		Definition of 'work done'. Calculating energy transfers and work done in different situations involving gravitational potentials (vertical drops, slides of different gradients etc.) AS text book.		Exam questions from different exam boards. Isaac Physics review and questions. Text book questions		
14 Nov 2016	Gravitational potential energy	A level physics text book Class notes https://isaacphysics.org/ Exam Q's		Revise and practice content this half term so far and Newton's laws and circular motion from last half term. Review inverse square law for intensity.		Review on Isaac Physics For further information and extension, see this video from Stanford university. https://www.youtube.com/watch?v=hbmF0bB38h0		
21 Nov 2016	Gravitational fields (Ass/DIRT)	A level physics text book Class notes https://isaacphysics.org/ Exam Q's		Revise point and spherical masses, resolving forces, motion and Newton's Laws ready for learning about simple harmonic oscillators.		Exam Q practice		
28 Nov 2016	Simple harmonic oscillations (theory)	A level physics text book Class notes https://isaacphysics.org/ Exam Q's		Write up method for next week's PAG. Familiarise yourself with the theory from this week and formulate a hypothesis.		Revise today's theory on S.H.O. and do practice questions from book. Exam Q practice Text book practice Q's		
5 Dec 2016	Simple harmonic oscillations (practical)	A level physics text book Class notes https://isaacphysics.org/ Exam Q's		Consider work done and changed in gravitational potential in different oscillators (mass on spring, pendulum).		Exam Q practice Text book practice Q's		

12 Dec 2016	Energy of a simple harmonic oscillation	A level physics text book Class notes https://isaacphysics.org/ Exam Q's		Shock absorbers in cars are simple harmonic oscillators. Why are they designed to only oscillate once before stopping? How is this done? What happens to the energy in the shock absorbers?		Past exam Q practise Text book practice questions.	
19 Dec 2016	Dampening	A level physics text book Class notes https://isaacphysics.org/ Exam Q's		Revise for Mocks after Christmas.		Exam Q practice Text book practice questions. Isaac Physics, Feynmann lectures on physics (http://www.feynmanlectures.caltech.edu/ volume I)	