

YEAR 11 PHYSICS WORK PLAN: Semester 2, 2017 – Mr. Telleman



UNIT	TERM 3 TOPICS	ASSESSMENT	DUE DATE
4	<p>On the Move: Investigation (5 weeks) Use of technology to collect real time data related to the kinematics; <i>Review of Constant acceleration equations and the analysis of linear motion. Newton's Laws; Vertical motion under gravity Momentum and inertia. Conservation of momentum; Impulse; Graphical representation and interpretation data for displacement, velocity and acceleration vs. time.</i> Using technology to facilitate the analysis of data; Kinetic energy and work. Potential energy. Include applications and analysis.</p>	<p>Extended Experimental Investigation (EEI) Students will be required to use data logging devices/software e.g. video analysis for this exercise.</p>	<p>Week 8 Term 2 Handed out: Monday 5th June</p> <p>Week 4: Draft: Monday 31st July</p> <p>Week 6: Due: Mon 14th August</p>
5.	<p>Very Amusing Physics (5 weeks) Acceleration • Circular motion • Energy and work • Friction • Equations of motion • Gravity • Hooke's law • Kinetic energy • Mass and weight • Newton's 3 laws of motion • Pendulum • Potential energy • Power mechanical • Vectors • Velocity</p>	<p>Extended Response Task (ERT) Analysing a Coaster – Dreamworld Excursion Week 7 Tuesday 22nd Aug</p>	<p>Week 6 Handed Out: Tuesday 15th August</p>
UNIT	TERM 4 TOPICS	ASSESSMENT	DUE DATE
5.	<p>Very Amusing Physics (1 week) (continued) <i>Finalisation of ERT and review of above principles.</i></p>		<p>Week 2 ERT Draft Due Date Monday 9th Oct</p>
6	<p>Heavens Above: (6 weeks) Investigations into our Solar System, Galaxy, and beyond. • Circular motion • Electromagnetic spectrum • Graphs and tables • Gravity • Lenses • Mirrors • Elliptical Orbits • Relativity • Vectors • Waves in two dimensions</p>	<p>Written Task: End of Sem. Exam Unit: 3. 120 minutes</p>	<p>Week 3 ERT Final Due Thursday 19th October</p> <p>Week 8 Exam Block</p>

This work plan was last updated on Monday, 17 July 2017. The contents are subject to change – students will be advised in advance of any changes - regularly check for updates.