YEAR 12 PHYSICS WORK PLAN: Semester 1, 2017 - Mr. Miller-Metzner

UNIT	TERM 1 TOPICS	ASSESSMENT	DUE DATE
	7.Tarps and Eskies (Thermal Physics and Introduction to Structures) (10 Weeks) Energy and work, heat and its effects, heat and temperature, Specific Heat, Density, Kinetic Energy, Latent Heat, States of matter, Newton's Law of Cooling, Thermal resistance Structures; Bending Moments; Structural analysis (2D-3D)	**EEI:** 5 weeks (across 8 weeks), class time and own time; individual report **SA:** Properties of Materials Stimulus (4 day lead), Response under Exam Conditions 90 mins	**Handed out Week 4** Mon 13th Feb **Monitoring Dates** Mon 20th Feb, Mon27th Feb, **Draft 1 Due: Week 7** Friday 10th March **Draft 2 Due** :**Week 2** Term 2 Monday 24th April **Task Due**: **Week 3** Monday 1st May **Week 9** Thurs 23rd March per 4 and pm break.
UNIT	**TERM 2 TOPICS**	**ASSESSMENT**	**DUE DATE**
	8. Theoretical and Practical Electronics (10 weeks) Electric current, charge, potential difference , Ohm's law and resistance , Electromotive force , Power dissipation , DC Circuits , Kirchoff's rules, Capacitance Circuit Analysis, Ohmic and non-Ohmic Devices, Diodes, Transistor circuits, Boolean algebra, Logic Circuits. Circuit Investigation and Construction: Design and construction of circuit electrical device,	Supervised Assessment Short and extended answer objective questions; minutes; Individual written response; Exam conditions, Closed book. Part A: Theory (100 mins) Part B: Practical Circuits (60 mins)	Exam Block **Week 10**

This work plan was last updated on Monday, 13 March 2017. The contents are subject to change – students will be advised in advance of any changes - regularly check for updates.