YEAR 11 2AB PHYSICS 2011 MOVEMENT RESEARCH PROJECT

Student names
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The Y11 physics movement research project requires you or your group to select a topic related to Movement as outlined in the Year 11 2AB physics program and conduct an experiment.

This research project involves using the physics of movement to create an experiment. Objects such as: Parachutes, Hovercrafts, Yachts, Ships, Ice, Catapults, Skates and Ramps, shUttles, baLls, RockEts & Scooters can be used in the research project.

1/2	Ea	Each research group must:				
	1	Design a movement experiment	13/97			
(M)	2	State a hypothesis				
8 ° C	3	Conduct a movement experiment and collect data				
	4	Derive a predictive formula				
	5	Analyse the data to test the hypothesis.				

The assessment information is given below:

Sequence		Marks	Date	Term	Week
Step 1	Handout marking Guide	A STATE OF	VERISON 2/2	TI	11001
Step 2	Project outline due date	10	7/3	771	F
Step 3	Project written report due date	40	10/5	<u>T1</u>	9
Step 4	Project oral presentation (starts)	-	27/6	T2	7
	1 110 jest of all presentation (starts)	50	I CETBA	T2 ?	7

The wisdom of experience should not be ignored! So read on.

- 1. It is strongly suggested that you do not wait till the last minute to conduct your experiment. Time is crucial and you will need this time to complete a good scientific written report and a well prepared oral presentation.
- 2. Previous Y11 students have concluded that it is best to perform an early trial run of the experiment to 1) you can conduct the experiment successfully, and 2) you can obtain satisfactory results that can be graphed.
- 3. It is preferred that students conduct the research projects in pairs or by themselves!
- 4. If you are unable to conduct & achieve a satisfactory result for your experiment you must: a) See your physics teacher to discuss the issue/s. Suggested changes may lead to an improved
 - result. If a successful outcome is not imminent then a topic change may be required. b) If a research topic change is required (after the teacher
- discussion) the last date to effect a change is: T1 week 10Fri OHApril 5. If the project topic is changed (with approval from your teacher) you do not have to submit a new project outline. Marks allocated for your original project outline stand. It would then be best to conduct trials immediately.
- 6. Marks are allocated for original and relevant projects.
- 7. The report is to be stapled in the top left hand corner (not in plastic sleeves or presentation folders).
- 8. Some of the equipment required for the project may be borrowed from the laboratory technicians in the science learning area. Ask politely when requesting equipment and you must sign for it and you are responsible for the equipment!