SCHOOL OF PHYSICS, UNIVERSITY OF SYDNEY
JUNIOR PHYSICS EXPERIMENTAL PROJECTS
PROJECT PROPOSAL FORM

Please use a black or blue pen when completing this form.

Project Group (eg **6TECG**)	5ADVC
Project Title	Relationship Between Angle of Attack and Coefficient of Lift for Different Aerofoils

Project Group Members (* signature required for marks to be awarded)

#	SID	First Name	Surname	Signature*
1				
2				
3				
4				
5				
6				
7				

Project Description

Using two different aerofoils, our group will use the equation for lift to determine the relationship between the angle of attack and the coefficient of lift of an aerofoil.
From this data, we will determine the constant of proportionality that relates angle of attack to the coefficient of lift for each individual aerofoil. Thus, we aim to determine the aerofoil that that is able to maintain flight and resist stall for the greater angles of attack.

The air speed will remain constant throughout the experiment, the angle of attack will instead by changed, and then measured in order to graph coefficient of lift vs angle of attack.

Official use only - Must be completed by tutor mentoring the Project Group ***Tutor's name & comments***	***Mark / 4***

Enter your Project Group Number eg 6TECG

Equipment and Resources - It is important that this section is completed fully because it is used to prepare your Project Kits and organise your allocated space. Indicate whether you will supply the item (**S**) or Physics (**P**).

Supply S or P	**Item and comments**	**Model / Range /Specifications**
P	Aerofoils (pre-made), with at least two distinct shapes	
P	Wind Generator (ie fan or blower)	
P	Apparatus to hold the wing stationery whilst the wind is blown across it	
P	Electronic scales (range slightly higher than the aerofoil weight and quite sensitive)	
S	Protractor	

Description of Project

Project Timeline

Activity	Names and Contributions
Week 1	
Week 2	
Week 3	
Week 4: Oral Presentation	
Report	

What do you hope to learn from project?

References
