



MAAA FLIGHT PROFICIENCY SCHEME
FLIGHT REQUIREMENTS & TEST CHECK SHEET
ROCKETRY – GOLD WINGS

This Test is to be assessed by an MAAA Rocketry Instructor or State Senior Instructor.

The requirements specified have been determined by the MAAA and are not to be varied. Gold Wings (Rocketry) are awarded when a member demonstrates in the course of one session that he/she shows competence in the tasks listed below.

This is to certify that AUS

of P/Code

Club **Note: Write Club address on back of form if wings to be sent to Club.**

has demonstrated the degree of proficiency in preparation, launch, and recovery of rockets to be awarded the **MAAA Gold Wings (Rocketry)**.

.....
 Signature MAAA Instructor's Name (BLOCK LETTERS) AUS No. Date

At the successful completion of the test, this form shall be completed by the Instructor and sent to the State Association. Wings will be sent to the member unless the Club address is noted on the back of this form.

At least one week must elapse between testing sessions of a candidate.

Gold Wings – Rocketry

Item	First Rocket: (Description) Gross Weight: Thrust (total) T/W Ratio	Initial of Instructor
1	Holder of Rocketry Bronze Wings. It is a requirement to have held Rocketry Bronze Wings for at least 3 months. (Note: Recognition of prior learning may waive this period).	
2	Has the required knowledge of the MOP and Safety Code. Demonstrate verbally or in writing an understanding of MOP031 and the Rocketry Safety Code.	
3	Evidence of skill used in construction of first rocket presented. Demonstrate verbally or in writing, a thorough understanding of model rocket motor operation, model rocket assembly and preparation for launch.	
4	Demonstrate recovery device action and repacking. Demonstrate knowledge of the second stage (if present) ignition method, and timing of the ejection charge. Demonstrate the function of critical parts, strength of fins and airframe, position of CG and CP of all stages of the rocket.	
5	Discuss with instructor the expected stages of the rocket's flight. Fully describe the entire flight sequence, from launch to recovery.	
6	Appropriate selection of motor and igniter. Show an ability to select the appropriate motor, for Newtons or pounds thrust, burn rate and desired delay. (Motor size must be no less than D size and up to G size). The gross weight to thrust ratio must be considered satisfactory.	
7	Correct selection and assembly of igniter to motor. Demonstrate correct installation of igniter to the motor and insertion in the rocket.	
8	Demonstrate fixing rocket to the launch rod or rail, and connection of ignition device. Show that the launch equipment is sturdy and the ignition device is disarmed, and that the appropriate clearance is maintained from personnel.	
9	Successful countdown and launch. Demonstrate the aerodynamic stability of the rocket under powered flight (slight deviation from straight trajectory is permissible).	
10	Successful recovery. The rocket shall successfully deploy the recovery device. The Rocketeer shall demonstrate knowledge of a method of altitude calculation based on: (a) one observer's sighting. (b) triangulation from two observers' sightings.	
11	Demonstrate correct action taken in the event of a misfire.	