

### MAAA FLIGHT PROFICIENCY SCHEME

## FLIGHT REQUIREMENTS & TEST CHECK SHEET

# **ROCKETRY – BRONZE WINGS**

#### This Test is to be assessed by an MAAA Rocketry Instructor.

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

At the successful completion of the tests on three separate rockets, this form shall be completed by the Rocketry Instructor, or member authorised under the Award of Wings MOP027, and sent to the State Association.

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 Bronze Rocketry Certificate.

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

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.

### Instructor to initial & date the unshaded boxes as successfully completed.

Item	Tests for Rocketry - Bronze Wings	Test 1	Test 2	Test 3
1	<b>Discuss with Instructor.</b> *Required before further testing Display knowledge of the key safety elements of the launch process as set out in MOP031 and the Rocketry Safety Code.			
2	<ul> <li>Demonstrate recovery device action and repacking.</li> <li>Show: <ul> <li>knowledge of the function of the ejection charge</li> <li>the function of critical parts ie. thrust ring, motor retainer and shock cord</li> <li>strength of fins and airframe</li> <li>knowledge of the method of packing wadding and parachute or streamer</li> </ul> </li> </ul>			
3	<b>Discuss with instructor the expected stages of the rocket's flight.</b> Describe the entire flight sequence, from launch to recovery. Verbal and/or written explanations are acceptable.			
4	Appropriate selection of motor and igniter. Show the ability to select an appropriate motor (impulse and type) based on standard motor markings. (Must be A/2, A, B, C but not greater than C size motor.) The size, weight and drag of the model rocket has a bearing on this selection. Refer MOP031 – Appendix 5.			
5	<b>Correct selection and assembly of igniter to motor.</b> Demonstrate correct installation of igniter to the motor and insertion in the rocket.			
6	<b>Demonstrate fixing rocket to the launch rod or rail, and connection of ignition device.</b> Demonstrate that the launch equipment is sturdy, the ignition device is disarmed and that the appropriate clearance is maintained from personnel.			
7	<b>Successful countdown and launch.</b> Demonstrate the aerodynamic stability of the rocket under powered flight (slight deviation from straight trajectory is permissible).			
8	Successful recovery. The rocket must successfully deploy the recovery device.			
9	<b>Demonstrate action taken in the event of misfires.</b> After this step is demonstrated, 2 further flights should be undertaken, successfully completing elements 4 to 8.			