

# MAP Bronze Award Requirements

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## Introduction

This document is part of a set of documents for the award at the UKRA MAP Bronze level. There are three documents in this document set, the applicant and assessor are expected to be familiar with these prior to continuing.

1. MAPBGuide – The advice and guidance document
2. MAPBAC – This document
3. MAPBAN – The record of tasks and activities
4. MAPGlossary – General glossary of terms used by MAP

This document only the requirements and test requirements. Please see the MAPBGuide document for help and more information.

## Requirements to complete UKRA Bronze Award

For successful completion, the flyer needs to perform:

- All indicated core tasks
- One elective task
- Submit the records to UKRA

## Core tasks

These core tasks must be completed on the same day. Failure to complete all tasks on the same day means that the core requirements will need to be repeated:

1. Complete a simple model rocket, as described in supporting documents
2. Complete a second flight, as described in supporting documents
3. Discuss the rocket and its operation with the assessor, or RSO

Each task is observed and recorded to the assessors satisfaction.

### Assessment notes:

- The assessor need only see the rocket preparation stage for either flight one, or flight two, not both.
- The discussion is with the flyer, not anyone assisting; please see MAPBGuide for more details.

## Elective tasks

Select any one of the activities, it is recommended to perform this on the same day as the core requirements, though this is not mandatory. The flyer is not required to choose which elective ahead of time, they may also choose to switch electives at any time prior to the assessment:

1. Fly the same or similar rocket on a higher power motor, not exceeding 5NS in total (B-Motor). Observe the flight as described in the MAPBAG document.
2. Exchange the recovery system on the rocket for a different one and perform a successful flight. Permitted recovery options are in the MAPBAG document.
3. Assemble a parachute from scratch, observed by the assessor. Fit the parachute to a kit. Note: a flight is not necessary for completion of this elective.

Each task is observed and recorded to the assessors satisfaction:

### Assessment notes

- For elective 1. Confirm that the flyer understands the effect of the change of engine and understands the concepts of change of altitude and the effect of any delay change. Specifics such as altitude prediction are not required.
- For elective 2. The flyer need not perform the change alone, some assistance is allowed. Expect the flyer to understand the basic operation of both the original and replacement recovery system.
- For elective 3. The flyer is expected to perform this activity largely on their own, though can be assisted at the fitting stage. As there is no flight, the observations are limited to the quality of work and a 'fit to fly assessment.' Authors note: this is not expected to be the popular elective, but allows for a wet weather option, or for an elective that can be performed offsite if necessary. The use of the Estes kit 'chute, or similar, is acceptable as long as the flyer is observed performing the work.

## Submitting record card

Carry out the following:

1. Activities are recorded on the MAPBAN record document. Make sure the form is as complete as you can make it
2. Copy the information to UKRA, details will be given on the UKRA website
3. Include contact details for the assessor as shown on the form
4. Optionally, include any supporting material, pictures (say of flight cards and rockets), notes etc you wish