



NARTREK
MERCURY CADET ACHIEVEMENT LEVEL



SIGN ME UP!

Fill out this information form and include it in your mailing to NARTREK Base.

Name: _____

Street: _____

City: _____ State: _____ ZIP: _____

Date of Birth (mm/yy): _____

NAR # (required for member rate) _____

I am enclosing my completed Mercury Level Requirement Forms, plus a check for:

- ' \$5 (NAR member) or \$7 (non-member) for my Mercury Level only.
- ' \$10 (NAR member) or \$14 (non-member) for my Mercury Level materials and to sign up for the Gemini Level.
- ' \$20 (NAR member) or \$28 (non-member) for my Mercury Level materials and to sign up for Gemini, Apollo, and Skylab.

Send check or money order, payable to NARTREK, to:

NARTREK Base
George Scheil
7311 Ditzler
Raytown, MO 64133



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WELCOME TO MERCURY!

In Cadet Mercury the Cadet learns how to assemble, prepare and fly several model rockets, safely, many times. Rockets should be pre-packaged, manufactured kits. For Cadet Mercury you must use different models for each requirement. Although we recommend an individual launch pad, you may also use "rack" type group launchers. All rockets must be prepared for launch by the Cadet. Flights must be successful - any failure requires another flight. This includes misfires, low ejection, and failure of the recovery device to fully deploy. All flights must be witnessed by an adult.

What if a tree eats your rocket? Hope it doesn't happen on your first flight - it must fly a second time. If it is eaten on the second flight, but otherwise successful, you passed - assuming you got the photo first.

You may meet the photo requirements with individual photos of each model or combined into one or more photos. If a picture shows more than one rocket, be sure to label the picture, indicating which rocket was used for which requirement.

Remember that all flights for the Mercury Level must use motors no larger than "C" total impulse.

If you have any questions or problems be sure to let NARTREK Base know. We will do our best to fully answer all your questions by return mail (or e-mail).

All flights of this Level must occur **after** you obtain this packet in order to count. If you have paid for additional Levels, your Gemini materials will be sent to you automatically along with your Mercury certificate. This process is repeated for each level thereafter, and there is no need to send in any additional registrations. If you have only paid for your Mercury certification, however, you must send in the appropriate fee to continue to the next Level.

Completion of one level must be certified before the participant can fly models at the next level.

If you have obtained this Mercury packet from the NAR website, you can complete the requirements and include your payment along with your completed Mercury documentation.



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Suggestions:

- * Begin with a starter set which includes rocket(s), launch controller and pad.
- * Review the NAR Safety Code before all launches.
- * Use models in Mercury that can be flown in the Gemini Level duration parts.

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gwsch@planetkc.com



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Requirements:

Use different rockets for each requirement.

Part I

Do either:

1a. Fly and successfully recover an RTF (ready-to-fly) rocket 2 times. Complete the requirement certification sheet. Take a photograph of your model and attach it to the certification sheet. Use motors of no more than "C" total impulse.

and

1b. Assemble a rocket with a single or multi-piece plastic fin unit and fly 2 times. Complete the requirement certification sheet. Take a photograph of your model and attach it to the certification sheet. Use motors of no more than "C" total impulse.

OR:

1. Assemble a rocket with balsa (or stiff card stock) fins and fly successfully 2 times. Complete the requirement certification sheet. Take a photograph of your model and attach it to the certification sheet. Use motors of no more than "C" total impulse.

Part II

2. Assemble a rocket longer than 24" and fly 2 times. Complete the requirement certification sheet. Take a photograph of your model and attach it to the certification sheet. Use motors of no more than "C" total impulse.

NOTE: Do not send individual requirement certification sheets to NARTREK BASE!
Wait until you have completed all requirements before submitting your documents. Be sure to submit the required documents for both Part I & II.



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PART 1a - READY-TO-FLY FLIGHT REQUIREMENT

I hereby certify that I achieved two successful ready-to-fly rocket flights with
a rocket type _____ (rocket name)
manufactured by _____

	Flight #1	Flight #2
on	_____	_____ (date)
using a type	_____	_____ motor
manufactured by	_____	_____.

Signed _____
Print Name _____

Adult Supervisor:
Signed _____
Print Name _____

ATTACH PHOTO OF MODEL BELOW:



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PART 1b - PLASTIC FIN KIT FLIGHT REQUIREMENT

I hereby certify that I achieved two successful plastic fin kit rocket flights with
a rocket type _____ (kit name)
manufactured by _____

Flight #1

Flight #2

on _____ (date)
using a type _____ motor
manufactured by _____.

Signed _____

Print Name _____

Adult supervisor:

Signed _____

Print Name _____

ATTACH PHOTO OF MODEL BELOW:



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PART 1 (alternate) - Balsa Fin Kit Flight Requirement

I hereby certify that I achieved two successful flights with a balsa (or card-stock) fin kit that I built from a model rocket kit _____ (kit name) manufactured by _____

Flight #1

Flight #2

on _____ (date)

using a type _____ motor

manufactured by _____.

Signed _____

Print Name _____

Adult Supervisor:

Signed _____

Print Name _____

ATTACH PHOTO OF MODEL BELOW:



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PART II - LONG ROCKET KIT (24" or longer) FLIGHT REQUIREMENT

I hereby certify that I achieved two successful rocket flights with a rocket kit at least 24" long that I built _____ (kit name)

manufactured by _____

Flight #1

Flight #2

on _____ (date)

using a type _____ motor

manufactured by _____.

Signed _____

Print Name _____

Adult Supervisor:

Signed _____

Print Name _____

ATTACH PHOTO OF MODEL BELOW: