



New Mexico 4-H Greentop Project Guide



New Mexico 4-H Is A Program of New Mexico State University's Cooperative Extension Service

**400.I-26
(New 2002)**

Basic Model Rocketry **Unit I**

Introduction to the Project and Objectives of the Project

In this project you will be introduced to the world of model rocketry. By the end of the project you will complete Skill Level I and Skill Level II model rockets. You will launch the rockets and learn to calculate the altitude the rocket reaches.

Included in This Project Are

- Basic Model Rocketry, 100.I-26
- Record Sheets (at the end of the book).
- Basic Model Rocketry Unit I Greentop, 400.I-26

Activities for the Year

This year you will:

- Select and construct a rocket from Skill Levels I and II.
- Exhibit rockets at county fair and/or club Achievement Days. Winning rockets – first, second, and third place winners- are eligible to compete at regional or state fairs.
- Complete the questions at the end of each chapter.
- Complete the records at the end of the book.
- Give a presentation or illustrated talk to your club or school dealing with model rocketry.
- Take part in a tour that deals with model rocketry, if possible.

Citizenship and Leadership Activities

- Help your leader or agent organize a tour related to rocketry.
- Help organize a field day open to the public to teach others what you have learned about rocketry.
- Help younger members in your county with their rocketry projects.
- Present a workshop to teach School Enrichment or Cloverbud members in your county about rocketry.

Other Projects you may Enjoy

- Citizenship- Become involved in teaching the community about model rocketry.
- Computers- Design your rockets using a computer and the Estes Designer's Special Kit.
- Electric Energy- Learn about electrical current to understand what ignites the rocket engine.
- Engines (Small)- Learn about engines to understand how power generates movement.
- Leadership- Help younger members with their rocketry project.
- Model Rocketry II and Self-Determined (SD)- Continue building your knowledge of rocketry and space.
- Welding and Wood Science- Try building equipment or other models in this project if you like building model rockets.
- Public Speaking- Learn to give talks and demonstrations with this project to help you give talks and demonstrations on rocketry.

Plane, Nov. 19, 2001