### Science & Technology

#### AEROSPACE

**GRADES 9-12**

**Table of Contents**

**Pilot In Command,**  
**Grades 9-12**

**Youth Materials:**
- National 4-H Curriculum *Pilot In Command, Stage 4, Aerospace Activity Guide* (#06845)
- 4-H Involvement Report (#91910)
- 4-H Project Record Book (#91950)

**Volunteer Materials:**
- National 4-H Curriculum *Aerospace Adventures Helper’s Guide* (#06846)
- Aerospace Adventures CD (#07605)

**Requirements**  
In the member’s current Manual:
- Complete a minimum of 7 required/optional activities, plus 3 Learning Experiences (pg.4) each year.
- Finish at least 20 of the required and optional activities within 3 years to pass each book.
- Have your project helper date (month and year) and initial each activity when it is finished.
- Give an oral presentation (speech, demonstration or illustrated talk) related to this project.

Complete the following:
- 4-H Involvement Report (#91910)
- 4-H Project Record Book (#91950)

**Exhibit Requirements**
- 4-H Project Record Book (#91950)
- 4-H Involvement Report (#91910)
- An item made in this project. Suggested items:
  - Rocket made from a kit (Skill Level 3 or 4, include plans).
  - Box kite (include plans)
  - Any model rocket or airplane (Advanced skill level) not built from a kit (include plans).
  - Remote control airplane made from a kit (include plans).

OR
- A poster (14”x22”) or display illustrating something you learned in this project this year.

OR
- Report of things you learned or researched.

*Note: Exhibits should utilize only skills, tools, and techniques taught in that project book or previous levels. *See Special Directions at end of Aerospace requirements.*

**County Requirements:**
Check with your County Extension office for more information.

**Supporting Materials:**
To order National 4-H Curriculum: [http://www.4-hmall.org/Category/4-hcurriculum-aerospace.aspx](http://www.4-hmall.org/Category/4-hcurriculum-aerospace.aspx)
Idaho 4-H Aerospace page: [https://www.uidaho.edu/extension/4h/projects/aerospace-adventures](https://www.uidaho.edu/extension/4h/projects/aerospace-adventures)

*Special Directions*

Engines and igniters are not permitted with the exhibit. Rockets and other models must be able to stand freely on their own or be supported on a wooden base. Do not display rockets on a launch pad, or at an angle. Select a different item to exhibit for your second and third year within a given book; members wishing to build another rocket may select a different style within that skill level. For original design rockets or other models, describe in an attached summary how the model was tested for stability prior to flying.