

Completed (40 possible) _____
 Accuracy of answers (30 possible) _____
 Appropriate grammar (15 possible) _____
 Neatness of record (15 possible) _____
 Total _____

A = 86-100 points
 B = 71-85 points
 C = 70 points or less



4-H Aerospace – Beginner (Grades 3-5)

Record Sheet

Record for Year _____

A completed record sheet is due by the last business day of May to exhibit each project at the fair.
 Use any 4-H publications, the internet, the library, or a professional to help you prepare your responses.

The Basics

Name _____ 4-H Club _____

Years in 4-H _____ Grade _____ Years in Project _____

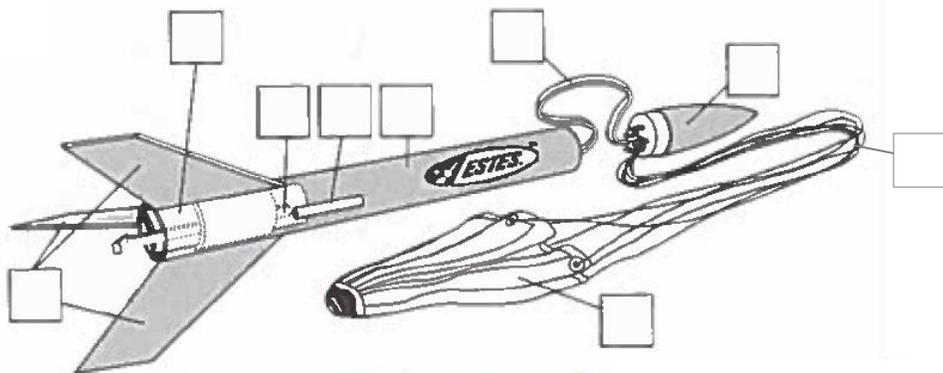
Research, Design, and Development

Name three types of aircrafts:

1. _____
2. _____
3. _____

Identify the parts of the rocket model shown below.

WORD BANK: body tube (A), engine hooks (B), engine mount (C), fins (D), launch lug (E), nose cone (F), recovery system (G), schroud lines (H), shock cord (I)



Describe what you plan to exhibit. _____

We do not necessarily care what you spent constructing your exhibit, but it is good for you to understand that things have a cost. Even poster boards are not free. Approximately how much did you spend constructing your exhibit or think you'll spend once it is complete? Circle one.

\$0.00-\$5.00 \$5.00-\$15.00 \$15.00-\$30.00 \$30.00-\$50.00 Greater than \$50.00

Preparing for Take Off

What aspects of weather or meteorology would a pilot need to consider before lift off? _____

Name two or three hazards a pilot might encounter or have to consider. _____

What engine size is appropriate for rockets in your division, and how do you know? _____

Define airfoil. How does it relate to aerospace and rocketry? _____

Pilots use the International Phonetic Alphabet to communicate clearly with one another and with air traffic control. Use the chart to the right to help you write your first name in phonetic code (ie. John would be written as Juliett-Oscar-Hotel-November).

Blast Off

In what way does this project apply to your life, or why is this subject matter important to you? _____

Flight Analysis

What is one thing you learned or sparked your interest as a result of completing this project? _____

| | | | | |
|----------|---|-----------------|-------|-------------------------|
| A | - | Alpha | ..... | (<u>Al</u> -fah) |
| B | - | Bravo | ..... | (<u>Brav</u> -voh) |
| C | - | Charlie | ..... | (<u>Char</u> -lee) |
| D | - | Delta | ..... | (<u>Dell</u> -tah) |
| E | - | Echo | ..... | (<u>Eck</u> -oh) |
| F | - | Foxtrot | ..... | (<u>Foks</u> -trot) |
| G | - | Golf | ..... | (<u>Golf</u>) |
| H | - | Hotel | ..... | (<u>Hoh</u> -tell) |
| I | - | India | ..... | (<u>In</u> -Dee-aH) |
| J | - | Juliett | ..... | (<u>Jew</u> -lee-ett) |
| K | - | Kilo | ..... | (<u>Key</u> -loh) |
| L | - | Lima | ..... | (<u>Lee</u> -mah) |
| M | - | Mike | ..... | (<u>Mike</u>) |
| N | - | November | ..... | (<u>No</u> -vem-ber) |
| O | - | Oscar | ..... | (<u>Oss</u> -cah) |
| P | - | Papa | ..... | (<u>Pah</u> -pah) |
| Q | - | Quebec | ..... | (<u>Keh</u> -beck) |
| R | - | Romeo | ..... | (<u>Row</u> -me-oh) |
| S | - | Sierra | ..... | (<u>See</u> -air-rah) |
| T | - | Tango | ..... | (<u>Tang</u> -go) |
| U | - | Uniform | ..... | (<u>You</u> -nee-form) |
| V | - | Victor | ..... | (<u>Vik</u> -tah) |
| W | - | Whiskey | ..... | (<u>Wiss</u> -key) |
| X | - | X-ray | ..... | (<u>Ecks</u> -ray) |
| Y | - | Yankee | ..... | (<u>Yang</u> -key) |
| Z | - | Zulu | ..... | (<u>Zoo</u> -loo) |

Name two types of people who could benefit from this type of knowledge. _____
