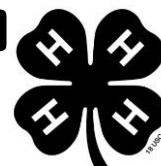


Completed (40 possible) _____
 Accuracy of answers (30 possible) _____
 Appropriate grammar (15 possible) _____
 Neatness of record (15 possible) _____
 Total _____

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

4-H Aerospace – Intermediate (Grades 6-8) 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 five types of aircrafts:

1. _____
2. _____
3. _____
4. _____
5. _____

List the general altitude range at which each plane usually flies:

Commercial Airlines: _____

Light Aircrafts: _____

Circle the correct word in the sentences below.

Flying higher means the air is **thinner or thicker**.

A plane will burn **more or less** fuel when the air is thick.

Planes will travel **faster or slower** when the air is thin.

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

Define barometric pressure. 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 decode the message being sent to the tower: "Papa India Lima Oscar Tango Sierra Uniform Sierra Echo Tango Hotel India Sierra Charlie Oscar Delta Echo Tango Oscar Tango Romeo Alpha November Sierra Mike India Tango Mike Echo Sierra Sierra Alpha Golf Echo Sierra."

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

Blast Off

Name three to five careers or career fields that use aeronautical principles. _____

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

Flight Analysis

What was the most challenging part about preparing this year's exhibit? _____

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