

# Simple Glider Post Flight Report

## 简易滑翔机飞行测试报告

### CER Statement CER 声明

Summarize all of your results in one final CER statement that incorporates your original ideas, predictions, and test results for the entire project.

将所有结果汇总到一个最终的 CER 声明中，包含整个项目的最初观点、预测和测试结果等。

#### Claim 声明:

Your goal was to make the best glider. Was your glider the best? In what category did it perform the best in? If it was not the best, what was its overall ranking (i.e. \_\_\_<sup>th</sup> out of \_\_\_)?

你的目标是做最好的滑翔机，那么你的滑翔机是最好的吗？它在哪一类中表现最好？如果它不是最好的，它的总排名是多少（即在某某类别中排第几位）？

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#### Evidence 证据:

Indicate all of the relevant results (quantitative data) and observations (qualitative data) from your flight tests that help support or disprove your hypothesis.

指出飞行测试中所有相关的结果（定量数据）和观察（定性数据）是怎样支持或反驳你的假设。

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#### Reasoning 推理:

Describe how the evidence (analyze your test results compared to others) that you have stated above supports your "Claim".

描述你所陈述的证据（与其他证据相比，分析你的测试结果）如何支持你的“声明”。

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#### Reflection 反思:

Describe how your design choice's (i.e. wing shape) lead to your glider's overall performance ranking?

描述你的设计选择（如：机翼形状）是如何影响整体排名的。

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### Overview 概述

Only one report needs to be submitted per group; however, it is recommended that you use one copy of the report to make rough notes before neatly consolidating all of your data into a new report booklet to hand into your teacher.

每组只需提交一份报告；建议在提高最终报告前先打一份草稿以便记录和编辑所有信息。

Please indicate all of the group members that have been working together to build your simple glider.

写出所有制作简易滑翔机的小组成员。

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Member A 成员 A

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Member B 成员 B

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Member C 成员 C

Please indicate which group member that has completed the "Post Flight Report".

写出完成“飞行测试报告”的成员。

"Post Flight Report" completed by / 飞行测试报告完成人 : \_\_\_\_\_

### Introduction 简介

In the "Post Flight Report" report you will be required to consolidate data for the entire class and complete a comparative analysis of your glider's performance relative to the other gliders that were tested by your classmates. You will then write a final CER statement that summarizes your findings.

在“飞行测试报告”中，你要整合整个班级的数据，把你的滑翔机测试与其他同学的测试做对比分析，然后，总结完成最终 CER 声明。

### Comparative Analysis 比较分析

Please add your **AVERAGE** results to the “**whole class results board**” at the front of the class. Then copy the results from the entire class to the table below. However, do not just copy the data directly from the “**whole class results board**” in the order that it has been added to the results board. **Make sure that you organize all of the data in descending order (from biggest to smallest) based on distance that was flown by each glider.** Then highlight your groups test results so that your results stand out.

把你的平均成绩写到教室前面的“全班成绩板”上。然后，将整个板上的结果按照**降序**的顺序抄到下表中，即**数据从大到小**。然后标记出你的小组测试结果。

	Group Members	Distance / 距离	Time / 时间	Speed / 速度
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
MIN				
MAX				
AVG				

Table 1: Summary of results for the whole class  
表 1 : 全班成绩汇总表

**TASK:** determine the **Minimum (MIN)**, **Maximum (MAX)**, and **Average (AVG)** results for the entire class in the space provided.

任务：记录或计算表格中数据的最小值（**MIN**）、最大值（**MAX**）和平均值（**AVG**）。

### Questions 问题

1. How strong was your glider? Did your glider survive multiple test, did it break, or did it completely fall apart during testing?  
在测试中你的滑翔机的坚固性怎么样？在多次试飞中是否幸存下来？是否断裂？还是完全解体了？

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2. How do you think your glider’s strength affected your tests results? Use evidence from your flight tests to support your answer (i.e. did it break after 1, 2,3,4, or 5 test).  
你认为飞机的力量对测试结果有什么影响？用飞行测试的证据来支持你的答案。

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3. How did your glider perform relative to the other gliders that were tested?  
相对于其他被测试的飞机，你的飞机表现如何？
  - a. What was your gliders overall ranking in the category “**Distance Flown**”?  
你的飞机在“飞行距离”中的排名是多少？
  - b. What was your gliders overall ranking in the category “**Time Airborne**”?  
你的飞机在“空降时间”中的排名是多少？
  - c. What was your gliders overall ranking in the category “**Speed**”?  
你的飞机在“速度”中的排名是多少？

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4. Did your glider preform better or worse than you were expecting?  
你的滑翔机的测试结果比你预想的是好还是坏？

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5. Did your test results match your predictions?  
你的测试结果和你的预测相符吗？

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