

**Head Start Lab**  
**Integrated Science 1**  
**Redwood High School**

**Name:** \_\_\_\_\_ **Period:** \_\_\_\_\_

▪ **Background**

The purpose of this assignment is to practice designing and conducting a controlled experiment in order to scientifically test a hypothesis. The specific question that we will address is “Does the amount of a head start given before a jump effect the length of a jump, and what amount of head start is associated with the longest jump?” Use the **Design Outline** worksheet below as a guide in writing your hypothesis and procedure.

▪ **Materials**

- 1. Meter stick

▪ **Design Outline** – Work with your lab partners to develop a design for your experiment.

Title:

Hypothesis:

Independent Variable (I.V.):

continuous     discontinuous

Levels of the I.V. (indicate control):					
# of trials you will conduct for each I.V. level					

Dependent Variable (s)

- Quantitative Measurements (include unit):
  
- Qualitative Measurements (no units required):

Constants:



**Data Table 1:** Quantitative Data: Title: \_\_\_\_\_

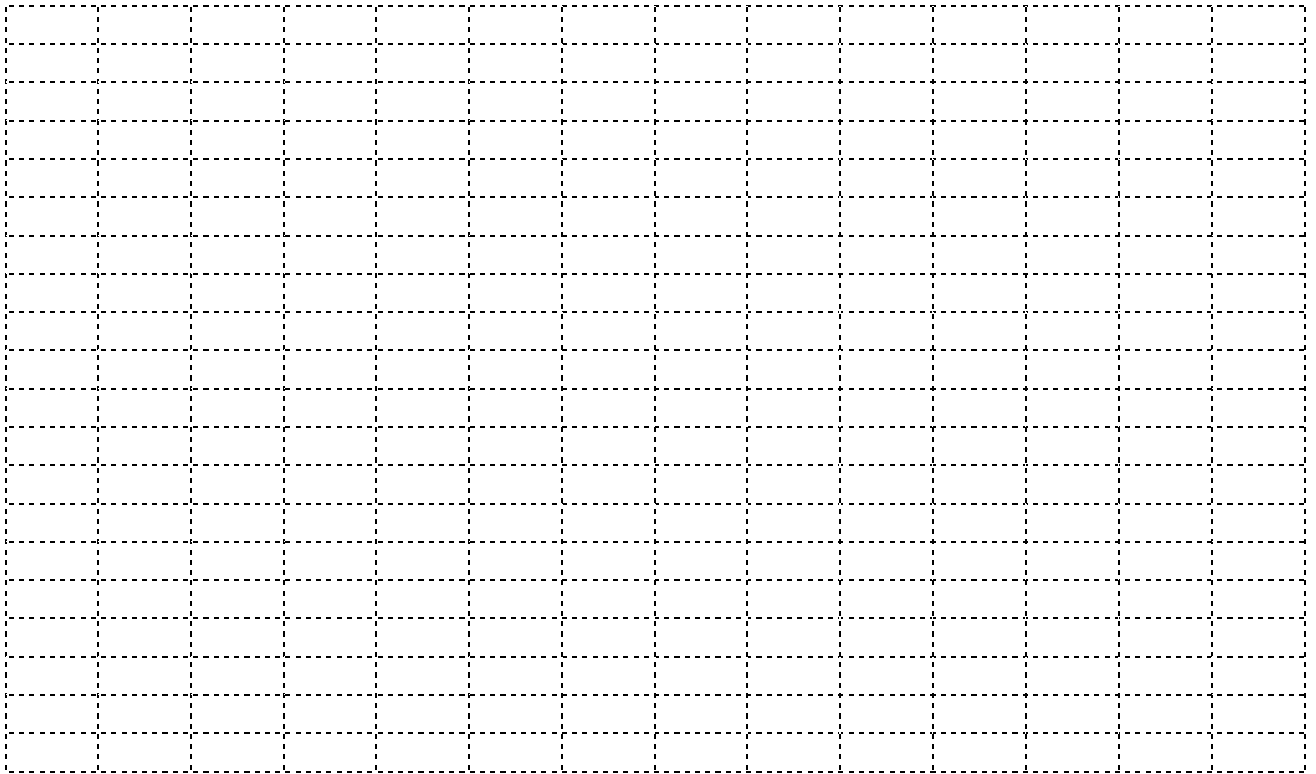
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**Data Table :** Qualitative Data: Title: \_\_\_\_\_

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**Graph-** Construct a graph to illustrate your data. Follow the ALL the rules of graphing.

Title: \_\_\_\_\_



**Discussion** – Use the space below to discuss the results you obtained in this lab. Address each of the questions below in 3 separate paragraphs (*one paragraph for each bullet point*).

- How is the head start distance related to the jumping distance? **Make references to the data in data table 1 and graph.**
- Consider the data represented in table 2. Are there any other factors that contribute to jumping distance? If so, what are they and what kinds of contributions do they make?
- Were there any experimental errors introduced in conducting this experiment?

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