Headwaters Science Institute: Student Driven Research

Group:_____ Date:_____

Research Topic(s): _____

_____

What do you know about this topic (research methods, words, ideas, phrases)?

Rules for Asking Questions

(Question asking technique adapted from the Right Question Institute: http://rightquestion.org/)

1. Ask as many questions as you can, even ones that aren't feasible given our time constraints and materials. It can guide us to questions that will work. Make sure to record all of the questions.

2. Change all statements into questions

3. Do not judge any questions, but be sure to ask follow up questions or re-phrase questions to help improve them

4. Everyone should participate

Question List

1._____

2._____

3._____

4._____

5._____

6._____

7._____

8._____

9._____

10._____

11._____

12._____

13._____

14._____

15._____

16._____

17._____

18._____

19._____

20._____

21._____

22._____

23._____

24._____

25._____

Rework your questions. Go through all the questions and re-work as many as possible into questions that will be feasible to research given our time constraints and resources.

Top 3 Questions (Pick your top 3 questions)

1._____

_____

2._____

_____

3._____

_____

Hypothesis: A hypothesis is proposed explanation or prediction.

Write hypotheses for your 3 questions.

_____

_____

_____

_____

A hypothesis is incomplete without the WHY.
Write out a short justification, or reason why, for your hypotheses.

_____

_____

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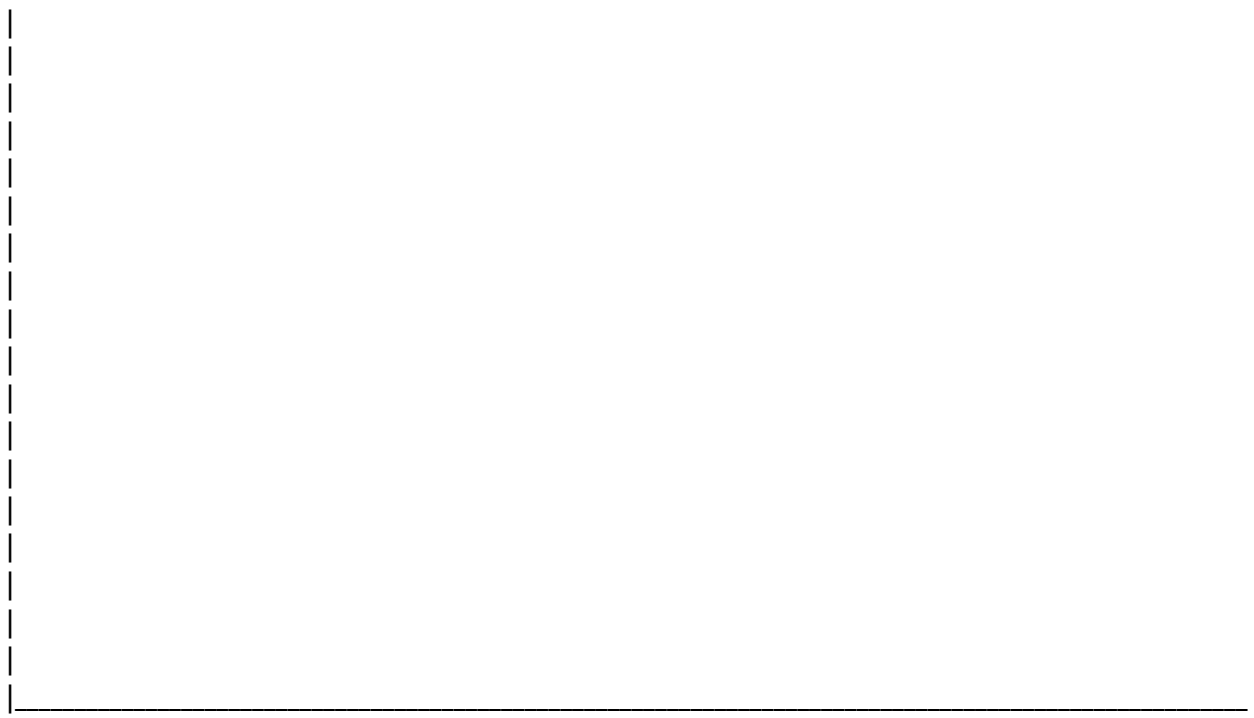
Graph the expected outcome if your hypothesis is true. You can use the backside of this paper to do more than one. Remember to label your axes.



Methods

What research methods can we use to test our hypothesis? The more detail you can describe the easier it will be to get started in the field.

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Materials

What materials do we need to gather?

Data Table

INTRODUCTION

QUESTION

HYPOTHESIS

MATERIALS

RESULTS

METHODS

DISCUSSION