LABORATORY 1 – INTRODUCTION

This laboratory is divided into 3 parts.

Part 1 is to be done BEFORE you come to your weekly laboratory class.

Part 1, which also appears in your lab book, follows next. If there are internet links in Part 1, you can click on those links to go to that assigned web page.

For Part 1, you should write your answer(s) in the space(s) provided in your lab book and bring those answers to your lab class ... or submit your answers otherwise as requested.

In the abbreviated Parts 2 and 3 (below), only the internet link(s) appear in this online version. For the full exercises in Parts 2 and 3, see your lab book.
Before starting this laboratory, you are required to read Chapter 1 in your textbook, *The Sciences*, by Trefil and Hazen.

Activity 1-1 – The definition of science

From reading your textbook about what science is and searching on-line for the “definition of science,” write out your definition of science in the space below. Do not copy from the textbook or other sources; use your own words.

► Write your definition IN YOUR LAB BOOK and bring it to your lab class or submit as your lab teacher asks.
Part 1. Laboratory preparation

Activity 1-2 – Journal article reading

This semester, we are all going to read a scientific article that was published by a biology research group on the Auburn University campus. The title of this paper is *Climate change and the decline of a once common bird* by Christopher J.W. McClure and others. This paper was published in the peer-reviewed scientific journal *Ecology and Evolution*.

Go to this link to find this article: [http://onlinelibrary.wiley.com/doi/10.1002/ece3.95/pdf](http://onlinelibrary.wiley.com/doi/10.1002/ece3.95/pdf)

Read the article, which should be downloaded (printed) for reading and study. Be sure to read the article carefully, and do so several times. On the printed copy, and write notes on it as you read it.

► Using a *color highlighter* mark important parts of the article, and bring this marked copy to your lab class (or follow any alternative instructions from your lab teacher.)
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LABORATORY 1

Part 1. Laboratory preparation

Activity 1-2 – Journal article reading, continued

Once you have read the article several times, answer the following 5 questions. The answers to these 5 questions should be brief, and should relate to the textbook reading assignment in Chapter 1 and your reading of the article. Also, you should review these topics (hypothesis, branch of science, basic research, applied research, scientific method, and funding sources BEFORE answering these questions, because the meaning of these terms in the following questions is the same as in the textbook (Chapter 1). In order to respond correctly to the questions, you must understand these terms.

1. What was the main question or hypothesis?

2. This article deals with what branch of science?
Part 1. Laboratory preparation

Activity 1-2 – Journal article reading, continued

3. Is this basic or applied research? What characteristics of this research indicated the answer to you?

4. How was the scientific method used? Cite one example from the article.

5. How was this study funded? Give the name of the agency.

► Write your answers IN YOUR LAB BOOK and bring them to your lab class or submit as your lab teacher asks.
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LABORATORY 1

Part 2. Laboratory activity

SEE YOUR LAB BOOK FOR ALL QUESTIONS.

NO CLICKABLE LINKS IN THIS PART.
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LABORATORY 1

Part 3. Laboratory retrospective activity

SEE YOUR LAB BOOK FOR ALL QUESTIONS.

NO CLICKABLE LINKS IN THIS PART.