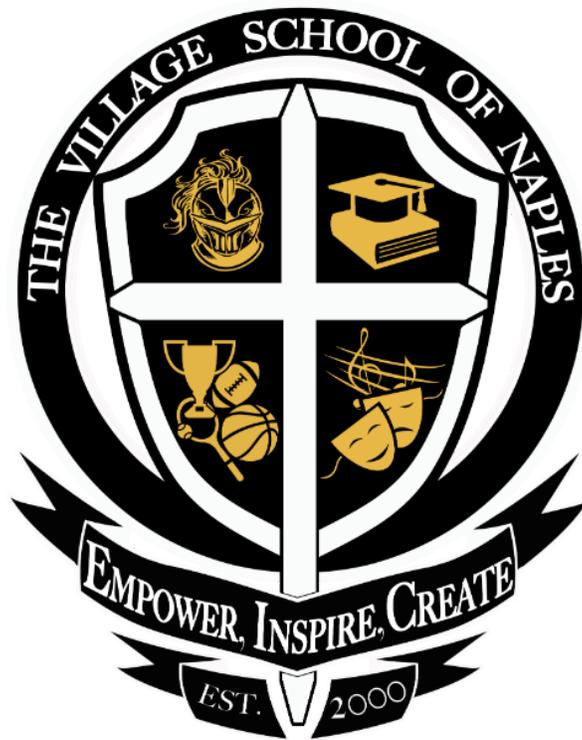


# The Village School's AP Environmental Science Summer Assignments



Please complete and turn in the following activities  
on the first day of school in August.

## AP Environmental Science Summer Assignments

Welcome to AP Environmental Science! This is a rigorous, interdisciplinary course where we will apply scientific concepts and principles from a variety of fields to understand the interdependent relationships of the natural world. In order to identify and analyze environmental problems both natural and human-made, and evaluate the relative risks associated with these problems. So we are able to jump right into the course of study come August -- and so I can get a baseline for your comfort and experience with experimental design -- **you are asked to complete guided reading notes for Chapter 1 and then write an experimental plan/design using six of the boldfaced vocabulary terms from the chapter.** This section of reading provides a review of biological and physical science concepts important for this course and serves as an introduction to the study of environmental science. Then creating a lab experiment is a skill that you will continue to develop in this course and eventually be asked to show on the AP test. We will spend the first few days of class reviewing these topics, but you should be prepared to discuss them and be tested on the material shortly after the start of school.

**Instructions:** In order to complete the summer assignment, please download [this PDF copy](#) of the first chapter of the textbook, which is about 12 pages of reading. **You do not need to print these pages.**

All of your work should be neat and organized, but it can be either typed or handwritten. Whichever method you choose to do, you will need to bring a hard/printed copy with you on the first day of class.

Please read the chapter and take notes to summarize the main ideas of the chapter. Use the guided reading questions below to help you as you read and write your notes to make sure you cover the main ideas. You are also encouraged to add further details to your notes past the guided reading questions. After reading the section and completing your notes, review the **boldfaced** vocabulary terms discussed. Select six of the **boldfaced** vocabulary terms to be included in the premise of the experimental design you create. **You do not need to complete the experiment.** Just write a 1-2 paragraph summary with complete sentences that includes: what your experiment would study and entail, the basic scientific process to complete the experiment, your hypothesis, and the six **boldfaced** vocabulary terms. There are a series of questions below to assist you in the planning process for your required experimental design.

### **Chapter 1: Environmental Science, Sustainability and Critical Thinking**

- Guided Reading Questions for your Summary Notes:
  - **What are the current trends seen in the environment?**
  - **What have been the past trends in environmental sustainability/science?**
  - **What is environmental science?**
  - **What are the parts/points of the scientific method?**
  - **What is the difference between inductive and deductive reasoning?**
  - **What are the components of a well-rounded experiment?**
  - **Why is it hard to see/understand the impacts of pollution on humans?**
  - **What are the important parts or key factors in scientific knowledge?**
  - **What are the key points of critical thinking?**
- Things to consider when creating your experiment using six of the **boldfaced** vocabulary terms:
  - **What is the topic or premise of your experiment?**
  - **What is your hypothesis?**
  - **What would be the main ways you would test/create your hypothesis and create your experiment?**
  - **How would you know what you are testing is creating reliable results?**
  - **What general items would you need in your experiment?**
  - **How would you measure the results of your experiment?**
  - **Did you use or reference 6 different BOLD FACED vocabulary terms from Chapter 1?**