

Course Number (when applicable)
Course Title
Honors Biology
Name of Assignment (title of book(s), Author, Edition, and ISBN (when applicable))
Seed Germination Experimental Design Biology Article
Expectations/Instructions for Student When Completing Assignment
See next page
One Essential Question for Assignment
What are the characteristics of life?
One Enduring Understanding for Assignment
Though there is extreme diversity in living things, all share common characteristics.
Parent Role and Expectations
none
Estimated Time Requirement
2-3 hours

Part 1: Create an account at Khan Academy if you do not already have one, and work through the “Intro to Biology” Module linked [here](#).

Take notes on (or write a summary of) on the **characteristics of living things** and on the **scientific method**. You should be familiar with the generally agreed upon characteristics, and offer your input on whether or not a virus should be considered a living thing. Additionally, please take the 8 question skill check after completing the module, and take a screenshot of this with your username visible in the upper corner. There will be a short quiz on these concepts during the first week of school.

Part 2: Seed Germination Experimental Design

- **First**, do some research on what germination is and what conditions are required for seeds to germinate.
- **Second**, use that information to form a question about germination. For example, you could ask if more seeds germinate using sugar water than plain water.
- **Third**, create an experiment that will answer your question.
- **Finally**, type your question and experimental design on no more than one page of paper. You should have this ready by the first day of class. We will discuss your designs in class. These do not need to be perfect, but should reflect research and the experimental design outlined in the Khan Academy reading. Please identify **independent variable**, **dependent variable**, **experimental group**, and **control group**,