

Botany 2

1. Students will be able to discuss the basic biology of plant pests and pollinators.
 1. Students will be able to identify common insect pests of Utah
 2. Students will be able to display insects they have found and present their findings to the class
 3. Students will be able to identify IPM methods to control or encourage the insect populations they have found

2. Students will be able to discuss the various types of soil and their advantages/disadvantages
 1. Students will be able to identify the four main categories of soil
 2. Students will be able to carry out a simple soil test on their soil at home
 3. Students will conduct experiments on the effects of soil type on plant growth
 4. Students will be able to analyze the nutritional needs of a site and be able to remedy them appropriately.

3. Students will be able to design a garden that follows a design brief
 1. Students will be able to understand and create a design brief
 2. Students will be able to design a wildlife-friendly garden using the principles of design
 3. Students will be able to present a design and clearly articulate how it follows the brief

4. Students will be able to choose a phenomenon about plants and conduct experiments to investigate that phenomenon
 1. Students will be able to graph the relationship between two data points
 2. Students will be able to design an experiment that compares independent and dependent factors
 3. Students will be able to control for conflicting variables
 4. Students will be able to conduct and write a literature review