

An Introduction to Inquiry and Field Work Using the Winogradsky Column

Student Lab Packet.

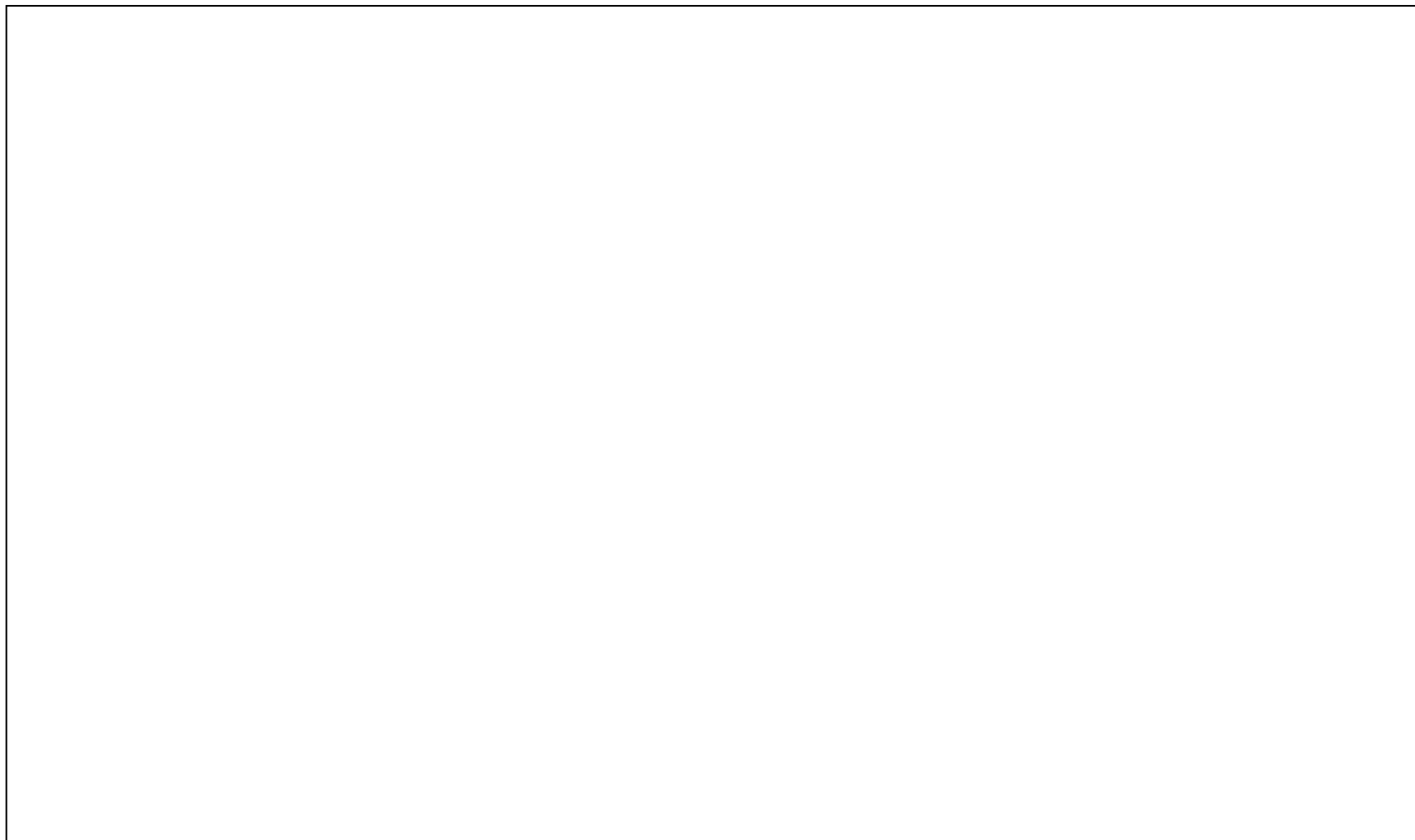
Sample Collection:

Scientists that work outside of a laboratory, especially when they are collecting samples, are doing something called field work. Typically samples that are collected in the field are then brought back to the lab where experiments are run and results are analyzed.

Look around you, make observations using your senses of the environment of where we are collecting our soil samples.

Observations	Sense/Senses used

Sample Collection: While in the field scientists make many observations and also use sketches to help them remember the environment they were studying. In the space provided below create a detailed sketch of our collection site.



Date _____ Time _____ Weather Conditions _____

Winogradsky Column Weekly Data Sheet.

Make some observations of your column using the available materials, pay close attention to the color of the soil.

<u>Measurements Week _____</u>	
Soil Height	_____ cm
Water Height	_____ cm
Column Mass	_____ g

Column Drawing Week

(use the entire box)

Other Observations

Column Placement Page

Where did your group place your column?

Why did you choose to place your column where you did?

Create a hypothesis (temporary answer) to what you think will happen to the soil in your column by next week. Hypotheses should be written in the form of a statement, not a question and should be specific as possible.

Our hypothesis:

Explain why you think this will happen.