



MEGA:BITESS Lesson Plan

Lesson plans related to Medical Entomology & Geospatial Analyses:
Bringing Innovation To Teacher Education & Surveillance Studies

<https://www.megabiteess.org/>

Lesson plan title: Weekly ovitrapping and egg counting

Lesson plan author(s): Emily Butterfield and Lauren Waldron

Lesson plan school(s): Bearden Middle School

Required background

All needed materials will be housed within this website.

<https://sites.google.com/view/clubbiteess/home>

Students can work their way through each lesson independently or as directed by an instructor as a part of a club, group, or organization.

Before leading this lesson, the instructor should become familiar with the the process students will be asked to complete.

All needed information on weekly ovitrap egg paper collection and egg counting can be found in the google slide show on the above linked website.

It is recommended that the instructor work through lesson one on the website so that they are familiar with the materials and activities students will be completing.

There is no Google forms quiz for this section. Students will use that time to count eggs and record their information on data sheets.

Objectives

I can...

- collect and record scientific data from an experiment with set parameters.

Standards addressed

TN Science Practices:

Planning and carrying out controlled investigations to collect data that is used to test existing theories and explanations, revise and develop new theories and explanations, or assess the effectiveness, efficiency, and durability of designs under various conditions.

Primary task

This lesson will be repeated over the course of 8 weeks as students replace their egg papers, count eggs, and record data from the previous week's collection.

Other activities

Video

Google Slides

Assessment

Students will fill out data collection sheets and input data into a google form or spreadsheet each week of their data collection.

Materials/links

<https://sites.google.com/view/clubbitess/home>

Potential limitations/issues to anticipate

Some students will struggle to record data in a spreadsheet. The instructor may want to create a google form for students, so that their responses will be automatically moved into a spreadsheet with less possibility for error and confusion.

It is recommended that students fill out their data on a paper form as it is being collected and then transferred to the spreadsheet or Google form. Have students keep their paper data sheet for reference if there seems to be unusual data or mistakes.

Internet access may not be available for all students and they may need to access the content asynchronously.

Teachers may want to set up virtual meetings with their club members if they are unable to meet in person. When there are bandwidth issues, having students turn off their camera can help them hear and see others in the meeting.