Odonata Slow Reveal Graph Teacher Guide

Lesson Topic: Odonata Phenology
Lesson Duration: 5-10 mins
Grade Level: High School

TERMINAL BEHAVIORAL OBJECTIVE

To construct an interpretation of data as the context is gradually given.

CURRICULUM CONTENT STANDARDS

HS.L2U3.18: Obtain, evaluate, and communicate about the positive and negative ethical, social, economic, and political implications of human activity on the biodiversity of an ecosystem.

VOCABULARY

Phenology, Odonata

COMPREHENSIVE LIST OF RESOURCES

Odonata SRG Slides
https://peerj.com/articles/9856/ (Bogan Research Paper where graph was pulled from)

Lesson Sequence

TIME (in mins	TASK ANALYSIS	TEACHING STRATEGY	STUDENT ACTION
5-10	**Slow Reveal Graph** **(I created this with the intent of making this a bellwork activity, but it could fit elsewhere in the lesson)**	Starting with the first slide, have the students note what they notice and wonder about the graph. You may have students do this alone on a piece of paper, or you can have them think-pair-share. I included additional questions to stimulate some thinking about the skeletal structure of this graph (different rows, different thicknesses). Each subsequent slide reveals more information about the graph, and the questions I've included scaffold thinking and encourage engagement. The last two slides contain the original figure caption and description from the paper which contains this graph. They provide much more context to the graph. You may decide to read through this with your students and have a continued discussion about this. You may want to include that this data was collected after effluent flow began at the Heritage site	Whether you have students think independently, pair-share, or any other strategy is up to you. With each slide, students should be thinking about what new information has been revealed and how that changes their understanding of this graph.