overarching QUEStion:

*What will your students discover as they watch these budding field professionals plan and carry out multiple field investigations?*

Concept

Watching young scientists explore scientific components of a local riparian area gives insight into how real-world field investigations are performed and how the combined data provides a clearer picture of ecosystem health.

activate

Students watch videos demonstrating scientific field investigations for aquatic biology, botany, entomology, soil science and water chemistry and employ a process to think through how they would improve the investigation.

check

Students take notes on one of the field science videos using a graphic organizer and work through a process to improve the investigation question.

Objectives

* Observe and report on how and why field investigations are performed.
* Develop alternative approaches or questions to improve data collection in the field.

resources

* Lesson: **Planning-Carrying Out Field Investigation.pptx**
* Reference Material
  + Science Investigations Guide.doc
  + Video 1
  + Video 2 -etc

Lesson Instructions

Review the **Planning-Carrying Out Field Investigation** PowerPoint and **Science Investigations Guide** with students. Assign a group of students to watch and answer questions about a specific field investigation. You may want to print out a copy of Slide 2 for notetaking. After watching the video, allow students 15 minutes to work together to synthesize the investigation process and intent, and then determine ways the investigation question can be improved. Ask the groups to bring their ideas to the class for peer review and feedback.