

**Main Ideas, Key Points,
Questions:**

After watching the video segment, write down key points, main ideas and big questions.

Objective(s):

- *To explain why replication is important in any experiment.*
- *To analyze and display experimental data in a table or graph.*
- *To use "Claims, Evidence and Reasoning" when arguing from evidence.*

Notes:

During the video segment, use words, phrases or drawings to take notes.

Summary:

*After watching the video segment, write at least three sentences explaining what you learned.
You can ask yourself: "If I was going to explain this to someone else, what would I say?"*

After watching the video and performing any associated labs and/or experiments, you should be able to answer the following:

- 1. What is replication and why is it important in any experiment?**
- 2. How did you decide to display your experimental data for analysis?**
- 3. Using quantitative data, how is an “average” calculated? If you like, you can simply show how you calculated an average for one of the river sample sites in your experiment.**
- 4. Using qualitative data such as indicator color, a numerical average cannot be calculated, so how can your data be evaluated?**
- 5. What is a guiding question?**
- 6. What do we mean by “Claims, Evidence and Reasoning”?**