1. Identify video resource(s) in need of assessment

2. Identify learning goals and desired outcomes related to videos

3. Identify research questions.

4. Identify assessment items that operationalize learning goals
   - Literature review
   - Write new assessment items (qualitative and quantitative)
   - Use existing assessments if they relate to desired learning outcomes.

5. Design research protocol and develop plan for treatment

6. Identify appropriate study population (i.e., existing class, student volunteers, etc...)

7. Establish control and treatment group(s)
   - Control group (No video)
   - Treatment group(s) (Video)
8. Administer pre-test, collect demographic information about study participants

Control group (No video)

Treatment group(s) (Video)

Data Collection

Data Collection

10. Administer post-assessment

11. Score assessments (grade open-ended questions using rubric)

12. Perform statistical tests on results from control vs. treatment groups

13. Consider possible threats to validity and reliability of results

Consider Likert-scale survey to gauge student attitudes towards videos

Perform statistical tests to check for covariance with other factors

CONCLUSIONS