

Observation Table

	Video 1: Claims, Evidence, and Reason	Video 2: Citizen Science: Creek Water Analysis	Video 3: Infographics for Change
Level (i.e., elementary school, middle school, high school)	Elementary	Middle	High
Setting (i.e., rural, urban, suburban)	Urban (Queens, NY)	"Urban/Suburban" (suburban, Olathe, KS)	Urban (Oakland, CA)
Instructional topic or content of the lesson	Scientific construct of germination, based on a kidney bean	Creek water analysis and later, tap water from homes	Presentation of ideas and research/design in civic engagement
Technology use, including examples of how technology is used in the classroom	Chalkboard and adhesive display paper for the teacher's presentation; printouts, bins of markers, and small whiteboards for student use in small group settings; a bell for attention getting, used sparingly by the teacher; presentation paper for student collaboration and final production; video production allowing for review and analysis, by students like me	Use of memes and viral messaging for inspiration; Internet portals for both information (i.e., Citizenscience.org) and collaborative work (i.e., digfieldschool.com); centrifuge tubes/vials for sampling of water, used together with scientific kits allowing for testing of water samples (e.g., pH, salinity, etc.), iPads with internet capability; QR codes for referencing weblinks; video production, <i>ibid</i>	Computers in the hands of students in which they could access graphic design programs via online resources with templates; rubrics, used as discussion materials such that the students could understand their goals better; an overhead projector for teacher presentation; a printed planning sheet used as a precursor to accessing computer tech.; video production, <i>ibid</i>

