

SCAPE Wrap (Workshops 2, 3 & 4)

June 19 - 23, 2017

Nov. 20, 2017

Questions for SCAPE Instructors

- 1) What's your study area? Please open the Partner Schools Folder and edit your map
 - a) Rex: San Miguel River at Mahoney Dr. and downstream into new mitigation area.
 - b) Kevin: Site 1) Surface Creek near Cedaredge High School; Site 2) Surface Creek flows into Tongue Creek near the Gunnison river, site 2 will tentatively be where Tongue Creek flows into the Gunnison River
 - c) Kristen: Along the Palisade to Loma reach of the Colorado; I need to work out access and other logistics before I commit
 - d) Renu: Audubon Center| Pond area and Salt River
 - e) Deb: 2 Green River access points, see map [here](#)
 - f) Chris : My study area will either be Lake Mead or about ½ mile below Hoover Dam. Hopefully, I can get access to the river.
 - g) Elena: Rio Salado Habitat Restoration, a City of Phoenix Park
 - h) Steve: Animas headwaters in Silverton; Lightner Creek & Animas River in Durango.
 - i) Mary: Mill Creek & Pack Creek in Moab.
 - j) Hector: Yuma area?
 - k) Jesus: Gila River confluence?
- 2) Who are your students (course taught)? What are the levels:
 - a) Rex: AP Enviro, AP Chemistry, Pre-AP Chemistry, Gen Chem
 - b) Kevin: 10th - 12th grade
 - c) Kristen: 9th through 12th grade
 - d) Renu: Environmental Science 10,11, & 12th graders
 - e) Deb: 10-12th grade, Field Science class
 - f) Chris: My students are chemistry students, grades 10-12. These students will have completed biology and possibly geoscience.
 - g) Elena: Non-majors Bio105: Environmental Biology
 - h) Steve: 11th Grade chemistry
 - i) Mary: 9th and 10th Grade Earth Science and Biology.
 - j) Hector & Jesus: Earth Science and Biology, 10 - 12 grade.
- 3) What UNITS / Lessons might you introduce? Do you have collaborators?
 - a) Rex: I will teach the Unit I: Enviro History/MyMap/Doing Our Part/First Served. Enviro Ethics. Unit II: riparian habitat/diversity, streamflow, water chemistry, macroinvertebrates. Unit III: likely do by myself to begin with. Hopefully the lab report with students. Unit IV: creating story maps and futures with Awareness in Action.

- b) Kevin: I will plan to introduce as many units as possible during fall semester 2017. I hope to involve our STEM/Engineering teacher and social studies teacher
 - c) Kristen: Units I and II in the first quarter; Unit III 2nd quarter; Unit IV 3rd quarter; would like to do a spring-time repeat of Unit II during the 4th quarter
 - d) Renu: Water as a resource, water pollution - mostly covered during second semester Jan- May. During first semester we cover Environmental Ethics - we will cover unit one of the SCAPE curriculum then.
 - e) Deb: Unit 1 & 2 in mostly in the fall, unit 3 during Nov/Dec
 - f) Chris: I plan to use the water flow and water chemistry units primarily. I hope to use all the probes, including salinity.
 - g) Elena: I will be teaching, Unit 1, Environmental history, My Map lesson, First Come, First Served, all of Unit 2, all of Unit 3, and Unit 4, Awareness to Action and Story Maps
 - h) Steve: Lesson II2 & 2.3. All Post Field Work (Unit III). Lesson 4.2 & 4.3. Environmental Ethics. Collaborator: Humanities teachers at Animas (Unit I).
 - i) Mary: Unit I (Lesson 2 & 3). Doing My Part in Utah Core. Unit II (All of Field work with biology and earth science). bioDiversity...big for Utah Biology Core. Strong state standards.
 - j) Hector: pH testing (Biology and Earth Science, Physical science standards).
 - k) Jesus: pH testing (integrated science)
- 4) When can Dan and Environmental Scientists visit your school?
- a) Rex: It will be best to have visitors after the AP exams in May - June
 - b) Kevin: Preferably Fall (Aug - Oct, weather pending) or late April, early May but will be busy with end of year stuff. Anytime in the middle will be hit or miss weatherwise
 - c) Kristen: 1st quarter would be best; if not 4th quarter
 - d) Renu: When we will have finalized the field trip we will let you know the dates .
 - e) Deb: Sept/Oct or Late April/May
 - f) Chris: Dan and the team are welcome to visit anytime.
 - g) Steve: Fall 2017 (late Sept. - early December). Plus final presentation.
 - h) Mary: Fall 2017. When leaves on trees.
 - i) Hector and Jesus : Nov. 20, 2017
- 5) Ideas or Video Documentation? Permissions?
- a) Rex: Drones everywhere. Mountainfilm is here, I would not be surprised to see a student film in the festival!
 - b) Kevin: Cross curricular with our journalism club or technology classes to create short documentaries of the process
 - c) Kristen: I can go through this process on getting permissions; students usually love to film each other
 - d) Renu: We plan to record students in action. May ask each team to videotape their data collection process and data analysis process. Some students may be in Digital Journalism class and we plan to put a short video for school news. Arts

teacher have a unit on “water” and we may combine the two. For seniors they may extend this work as their final project for “Exhibition of Learning” day. Permission should not be a problem - we will ask for the form once we reach that point.

- e) Deb: Ideas- student created iMovie’s as a research summary, or video similar to the “Stories of Place”done in 2015. Permissions will be easy to obtain from parents.
- f) Chris: I am going to encourage the students to take videos of themselves as collecting data and then make interview and presentations videos when they have processed their data. I am going to try to purchase a couple water-proof videos for use when collecting samples. I already have one Go-Pro knockoff that works very well. Please get us the ASU video permission form for minors before August 9th.
- g) Elena: I’d like students to create short videos for their StoryMaps
- h) Steve: StoryMap & fusion tables? Student designed question. All school exhibition. Action projects as product.
- i) Mary: would like a lab “unreport”--a non-typical way of presenting what they learned (video, poem, diorama, rap, .ppt, etc).
- j) PPEP: standard permissions already on file. Talk to Wayne about additional permissions.

Quarterly Surveys, these are submitted to UOEEE at ASU

- k) Every two months
- 6) Planning ahead to Final Summative Report end of May 2nd
- 7) Skype/Google Hangout/Which Technology Calls Quarterly?
 - a) Rex: I think G-Hangout makes the most sense so we can all see each other. I would love to have group dialogues every two months!
 - b) Kevin: Am familiar with Skype and I’m sure can learn Hangouts
 - c) Kristen: Have used Skype but not Google Hangout, but I’m not particular and will learn whatever
 - d) Renu: Skype as well as Google Hangout - whatever works!
 - e) Deb: Google Hangout is handy, but I’m flexible and have good tech support for any platform chosen
 - f) Chris: I don’t really care what format we use.
 - g) Elena: Either works for me
 - h) Steve: G-Hangout.
 - i) Mary: Skype or G Hangout.
 - j) PPEP: Curriculum authoring team uses VSEE (video conferencing).
- 8) Feed Dan and Kaard video and digital photos, here:
 - a) <https://drive.google.com/drive/u/0/folders/0B325gpDagGmfd3paZmVQLTdHSFE>
- 9) Recertification hours available. Credit. In-Service. Vicki.
 - a) PPEP: ; Wayne could generate certification

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