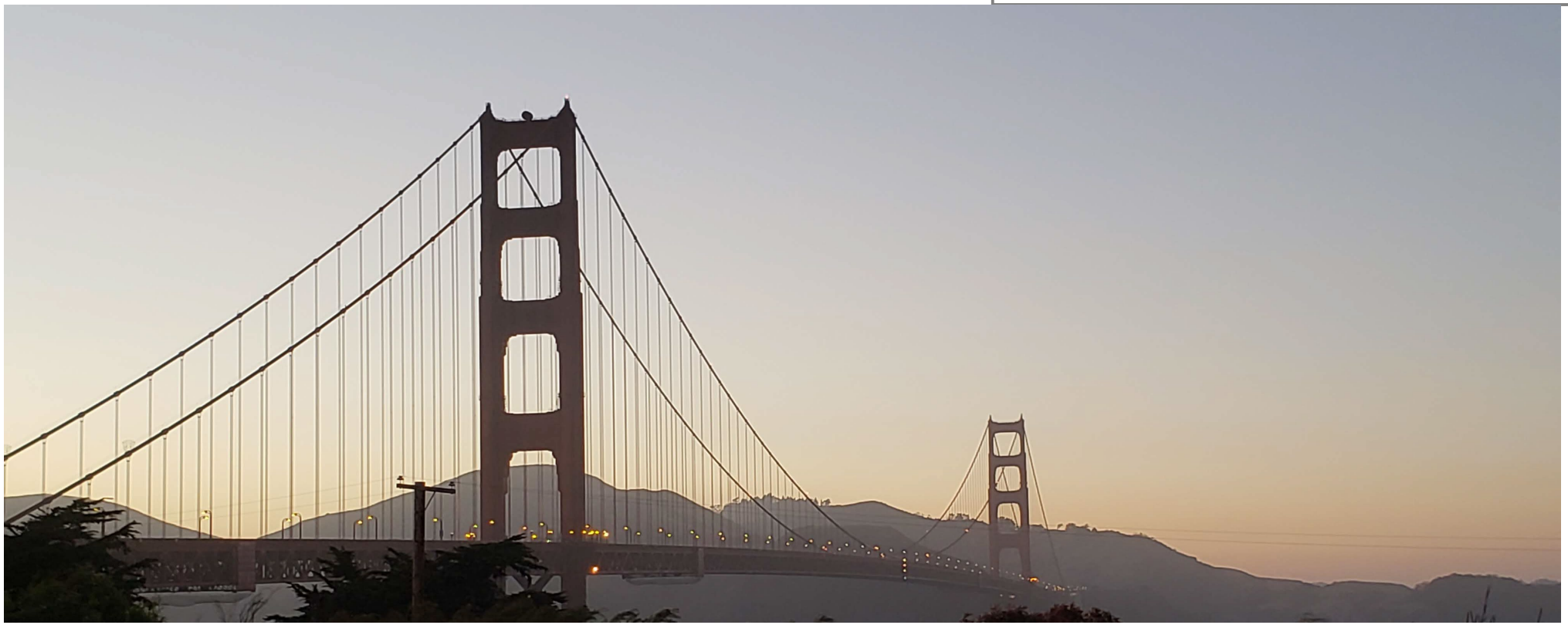


Amy Quinones

Harmony High School

AP Physics 1

Purpose/Goal

- Real world applications
  - Why do we learn the things we learn?
- Physics connections beyond the curriculum.
  - Real world research using modern physics concepts and techniques.
- Introduce students to interdisciplinary collaborations.
  - Physics and computer vision

Plan and Timeline

- Day 1- Bridges (Real world applications)
  - Where this fits: After Waves Unit (March)
  - Forces and torques as they relate to Bridges
  - Problems we face today
- Day 2- Raman Spectroscopy (Beyond the curriculum)
  - Where this fits: After Waves Unit (March)
  - Modern physics concept and technique being developed to monitor bridges

Plan and Timeline cont.

- Day 3-Computer Vision (Interdisciplinary studies)
  - Where this fits? After Waves Unit (March)
  - Computer vision can help engineers or doctors, etc. Students do not need to choose one pure field of study.