

Paul Ayers
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Objective To teach Physics or Chemistry at a high need public high school in Southern California.

Summary Dedicated teacher with four years of experience teaching Science in the high school level. I have experience teaching Chemistry (including Honors), AP Physics 1 and Physical Science. Skilled with the ability to teach students from a multitude of different backgrounds and learning needs. Develops creative lessons that are based on the Next Generation Science Standards (NGSS) utilizing activities that are meant to encourage a student's engagement and curiosity in the Science classroom. Committed to creating a classroom environment based on trust and mutual respect, so that each student feels comfortable and supported in their efforts to learn. Readily communicates with parents in a trusting and respectful manner, if there are any areas of attention needed for their student.

EDUCATION

August 2018-
June 2019

FOOTHILL INDUCTION CONSORTIUM

GLENDORA, CALIFORNIA

Cleared Single Subject Teaching Credential

2nd and Final Year of Induction

Met with the Induction mentor for at least two hours every week to discuss new teaching methods that could be implemented in the classroom. The main areas of focus were in classroom management techniques and pedagogy for an AP level class. Attended numerous district workshops while in the program and was observed by the mentor at least four times.

August 2017-
June 2018

BURBANK INDUCTION PROGRAM

BURBANK, CALIFORNIA

1st Year of Induction

Met with the Induction mentor for at least two hours every week to discuss new teaching methods that could be implemented in the classroom. The main areas of focus were in classroom management techniques and pedagogy. Attended numerous district workshops while in the program and was observed by the mentor at least two times.

August 2015
-May 2016

CALIFORNIA STATE UNIVERSITY FULLERTON

FULLERTON, CALIFORNIA

Preliminary Single Subject Teaching Credential

GPA: 4.00

Attended courses in preparation for teaching Physical Science to adolescents in the secondary education level. The specific courses covered: adolescent development, teaching English Language Learners, student diversity, developing literacy, teaching secondary Sciences, general pedagogy in secondary schools, supervised fieldwork, educational technology and seminars for secondary teaching.

August 2009
-May 2015

CALIFORNIA STATE UNIVERSITY FULLERTON

FULLERTON, CALIFORNIA

B.S. in Physics, Minor in Philosophy, May 2015

GPA: 3.31

Awards: Dean's List: December 2009 and May 2015, Dan Black Physics Scholarship May 2013, Noyce Scholarship May 2014.

Activities: Member of the Physics Club, Member of the American Physical Society. Enrolled in, and completed, upper-division elective coursework in Quantum Physics with an A grade.

Research: Worked for over a year and a half with Dr. Michael Loverude on Physics Education. Conducted research on the understanding of magnetism concepts for non-Physics majors enrolled in Physics courses. Researched the students' understanding of the relationship between Calculus integrals and Physics. For a semester, participated in research with Dr. Leigh Hargreaves on Particle Physics. Headed the research on measuring the parameters needed for building and designing a miniature apparatus for electron scattering.

EXPERIENCE

August 2018-June
2020

CLAREMONT HIGH SCHOOL

CLAREMONT, CALIFORNIA

Science Teacher. Taught for two years at Claremont High School. Managed four periods of Physical Science as well as one period of AP Physics 1 during the first year. Taught three periods of Chemistry and two periods of Physical Science during the second year. Crafted lessons that were based on the 5 E's model of NGSS and collaborated

frequently with colleagues on aligning our lessons and units with the NGSS cumulative and cross cutting model. Served the needs of Special Education students, as well as well as the needs of English Learners from various backgrounds such as Iran, Syria, Vietnam and Mexico. Attended an all-day AP training workshop for Physics 1 and an all-day new Physics teachers' workshop.

- June – July 2018 **DEDICATED TO LEARNING** **WALNUT, CALIFORNIA**
June - July 2019 **Chemistry Teacher.** Instructed Chemistry Honors for the Dedicated to Learning at Walnut High School. Dedicated to Learning was the group that Walnut Valley Unified School District used for their Chemistry Honors summer school program. The program was six weeks of a school year's equivalent in Chemistry Honors curriculum. Designed lessons with a lengthy lecture, a detailed lab activity and an assessment.
- August 2016 **JOHN BURROUGHS HIGH SCHOOL** **BURBANK, CALIFORNIA**
- May 2018 **Chemistry Teacher.** Developed and implemented daily and unit lessons for high school chemistry. Created lessons that were based on the 5 E's (Engage, Explore, Explain, Elaborate and Evaluate) of the Next Generation Science Standards. Planned lessons that encouraged exploration, by writing and preparing for lab activities and group inquiry investigations. Placed an emphasis on engagement by planning lessons that used demonstrations. Collaborated with a senior level Chemistry teacher on ideas for progressing and improving on my lab and demonstrations for the class. Attended two different workshops based on Kagan strategies in order to encourage engagement and discourse in the classroom. Instructed a Chemistry Honors class during the second year. Tailored the class to have rigorous concepts to master as well as extra work to perform on labs and classwork. Administered tests that contained a "class voted on" theme to promote engagement and enthusiasm during tests.
- June 2017- **BUSD SECONDARY SUMMER SCHOOL** **BURBANK, CALIFORNIA**
July 2017 **English Learners Apex Biology Teacher.** Ensured that English Language learners understood Biology based on the Apex curriculum and modules. Instructed students from Armenia, and one student who recently moved from El Salvador and had only been living in the United States for about one month. Designed lab activities and demonstrations to complement the Apex curriculum.
- September 2015 **SONORA HIGH SCHOOL** **LA HABRA, CALIFORNIA**
-May 2016 **Student Teacher.** Worked as a student teacher for the Fullerton Joint Union High School District. Collaborated with Mark Risse at Sonora High School teaching one period of Chemistry and two periods of Physics. Designed original lesson plans using the Five E model (Engage, Explore, Explain, Elaborate and Evaluate) of the NGSS, as well as grading all the assignments and teaching the classes. Was observed on two occasions by a retired teacher and given feedback on classroom management and implementation of the content for both Physics and Chemistry. Was also observed and given feedback on a daily basis by Mark Risse.
- June 2015- **OPPORTUNITIES FOR LEARNING** **SAN GABRIEL VALLEY, CALIFORNIA**
August 2015 **Math tutor.** Worked for the San Gabriel Valley division of OFL at the Whittier annex location, as a Math tutor. Provided tutoring for Geometry, Algebra 1, Algebra 2 and Pre-Calculus for high school students who needed to make up courses during the summer that they didn't pass during the school year.
- June 2014 – **CSUF UNIVERSITY LEARNING CENTER** **FULLERTON,**
June 2015 **CALIFORNIA**
Tutor. Tutored college students at CSUF in mostly Mathematics courses, as well as Physics and Chemistry courses.
- January 2014 **CSUF SUPPLEMENTAL INSTRUCTION** **FULLERTON, CALIFORNIA**
- December 2014 **Physics SI Leader.** Held workshop classes for students at CSUF taking lower level Physics courses (both Mechanics and Electromagnetism). Facilitated Physics practice problem study sessions that correlated with the Physics course and was available for any questions on homework. The students were given 1 unit of credit for taking the workshop class.
- Professional Development**
Kagan Day 1 Workshop (November 2016)
Kagan Day 2 Workshop (February 2017)
AP Physics 1 Training (November 2018)
New Physics Teachers Training (March 2019)
CUSD iPad Training Cohort (September 2019-March 2020)
CUSD Chemistry NGSS Curriculum Development (September 2019-May 2020)
- Personal**
Enjoys reading Physics and philosophy textbooks, collecting vinyl and CDs, reflecting and spending time with family.

