YouthTEACH2Learn (YT2L) is designed for high school students and a cluster of partnering elementary schools. In the traditional YT2L model, high school juniors and seniors participate in a full-year class, which uses the Project Tomorrow YT2L curriculum as a foundation. This recently updated curriculum is designed to prepare students for professional or learning support positions in education and reflects current trends and developments in education, including human development; standards, regulations, and codes; positive guidance techniques; learning strategies; contemporary learning theories; and standards-based curriculum and instructional design. Participating students develop deeper math, science or environmental science content knowledge in addition to acquiring strong 21st-century skills of collaboration, communication, critical thinking and problem solving.
“I can remember learning from high school students in the YouthTEACH2Learn program when I was little, and after being in the program, I truly understand how great the class is. This program was the key factor in my choosing teaching as my career path. I am beginning school at Cal State Fullerton as a Math major, in hopes of becoming a high school math teacher.”

Of the 1,700 high school students who have been through the YT2L program, 40 percent have pursued a teaching career. In 2014-2015, of YT2L high school participants responding to the end of year survey:

- 94% say they are comfortable working on a team. Before the program, only 85% reported being comfortable working as a team.
- 85% of students reported that they felt comfortable applying their knowledge of science outside of the classroom. Pre-survey data found only 59% felt comfortable at the beginning of the year.
- 98% of YouthTEACH2Learn students plan to continue their education after high school by going to college.

In 2014-2015, elementary school teachers responded to a survey about their experiences with YT2L and reported the following:

- 84% agreed that their students were more excited about learning science or math.
- 76% agreed that their students had a better understanding of science and math concepts.

Program Components
Delivered by Project Tomorrow

1. Comprehensive curriculum for high school class
2. Professional development for high school teacher advisor
3. A stipend for environmental science/science/math supplies to support the hands-on lessons developed by high school students
4. Project management and coordination and scheduling support for schools
5. Three levels of evaluation processes and impact reporting
6. Mentoring for high school students – from industry experts and university professors

Required Support from Participating Schools

- Teacher for HS class – 1 period per day
- Facility use for supplies and other program materials
YouthTEACH2Learn Program Overview

**EDUCATION EXPLORATION: CAREER TECHNICAL KNOWLEDGE & SKILLS**

Module 1: Orientation & Educators Rising California*
Module 2: The Structure & Economics of American Education
Module 3: The Effective Teacher*
Module 4: Human Growth & Development *
Module 5: Teaching Students with Special Needs
Module 6: Classroom Management & Community*
Module 7: Observation Cycles (Inquiry, Differentiation*, Technology*)
Module 8: Safety & Emergency Planning
Module 9: Government Regulations: IEPs, 504, & Mandated Reporter
Module 10: Standards-Based Instruction & Lesson Planning
Module 11: Instructional Strategies*

* Indicates module adapted for Afterschool Program

**MATH**

Module 12: Perspectives on Math
“How Many People?”
Math-o-Graphy
Algebra Readiness
Module 13: Math Standards
“Sleepy Time”
Understanding Common Core
An Introduction to Backwards Planning
Module 14: Manipulative Use
“Fraction Strips”
Module 15: Problem Solving
“Seats on the Bus”
Solving Word Problems
Module 16: Math Vocabulary
“Get it Together”
Math & English Language Learners
Module 17: Assessment Strategies
“Probability”
Formative & Summative Assessment
Student Interviews
Module 18: Lesson Development
Module 19: Health, Sanitation, & Nutrition

**ENVIRONMENTAL SCIENCE**

Module 12: Perspectives on Science and Environmental Literacy
Ecosystem Services are Essential to Human Life
Focus on Water Filtration
Teaching Water Filtration
Module 13: Ecological Footprint and a World of 7 Billion
People Influence Natural Systems
Ecological Footprint Worksheet
Elements of Lesson Design
Think-Pair-Share Strategy
Module 14: Tragedy of the Commons
People Influence Natural Systems
“Tragedy of the Commons”
Claim-Evidence-Reasoning
Module 15: The Nitrogen Cycle
Dead Fish Case Study
Nitrogen Cycle Game
Module 16: Particulate Air Pollution
“Monitoring Particulate Pollution”
Protocols for Conducting an Effective Lab
Module 17: Making Environmental Decisions
Environmental Issue Analysis
Effective Presentation Skills
Module 18: What’s Next? Career Planning

**SCIENCE**

Module 12: Perspectives on Science
“Egg in the Bottle”
Sci-O-Graphy
Why Learn Science?
Module 13: Science Standards
“Balloon Powered Car”
Understanding Next Generation Science Standards
An Introduction to Backwards Planning
Module 14: Hands-On Learning
“Index Card Towers”
Problem Solving & Inquiry
Module 15: Problem Solving & Inquiry
“Why Do Boats Float?”
Module 16: Science Vocabulary
“Have Your DNA and Eat it Too”
Science & English Language Learners
Module 17: Assessment Strategies
“Understanding Osmosis”
Formative & Summative Assessment
Student Interviews
Module 18: Lesson Development
Module 19: Health, Sanitation, & Nutrition
SPEAK UP 2015
Open from
October 1, 2015 - December 18, 2015
www.speakup4schools.org/speakup

WHAT IS SPEAK UP?

- A national research project from Project Tomorrow.
- A free, annual survey with nearly 4 million participants since 2003.
- The largest collection of authentic stakeholder input on education, technology, college and career readiness skills, schools of the future, and science and math instruction.
- A quick and cost effective way for students, parents, educators, and community members to voice their thoughts about digital learning to their school administrators and national policymakers.

GET INVOLVED

1. Take the survey. Share your thoughts and views on the challenges and opportunities of administrators and teachers today through the educator survey.
2. Promote the surveys within your school or district. Sign up today to be your school or district contact.
3. Make plans now for ways to use the Speak Up data. Every participating school and district receives free online access to your own participant data in February 2016 including the national and state data for comparison. Why do your own survey? Speak Up provides you with national data for benchmarking!

WHO CAN PARTICIPATE?

- K-12 Students
- Parents
- Educators
- Community Members

To learn more, please visit http://www.tomorrow.org/speakup or contact Jenny Hostert at jhostert@tomorrow.org