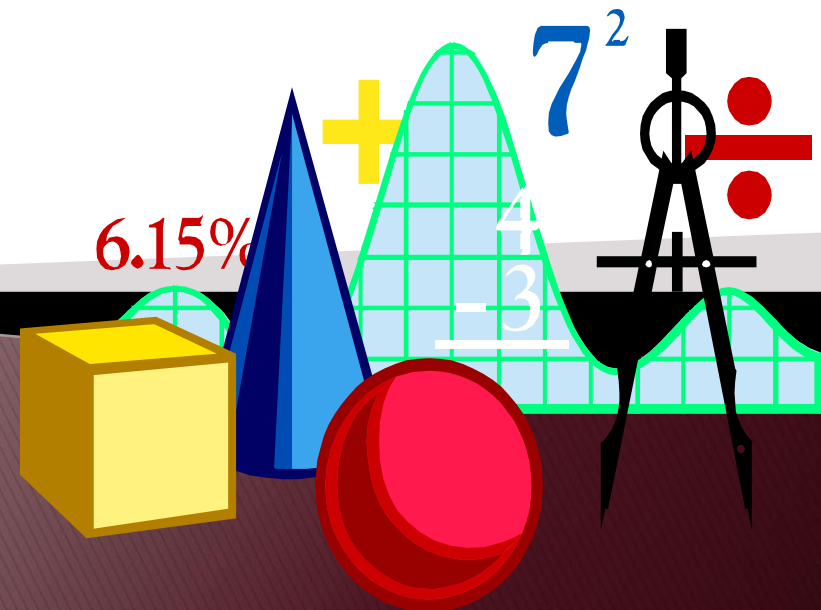
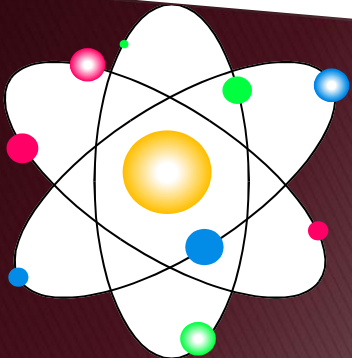


Energy and Utility Career Academy

Independence High School

Connie Grumling
Kim Woolf
Stacey Fuentes
Bill Parviainen
Aaron Jacobson



EUCA

A New Energy Academy Powered by PG&E

In partnership with:

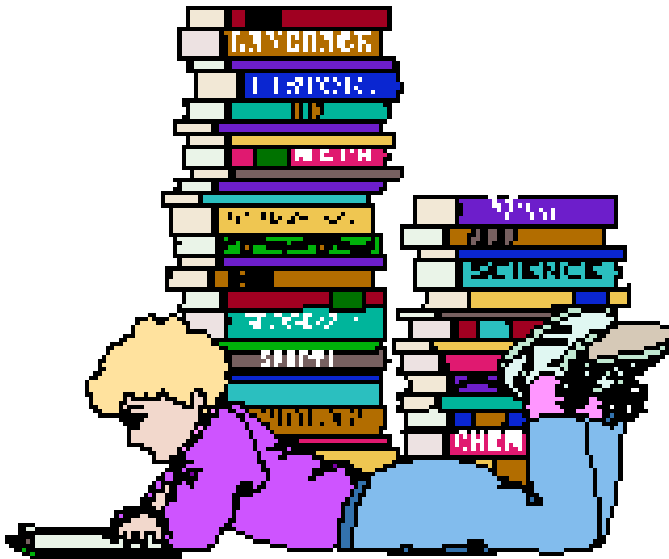
AERA Energy,
Bio Energy Solutions,
Chamber of Commerce,
Kern Economic Development Corporation,
Kern Wind and Energy Association,
Rio-Bravo Jazmin/ Constellation Energy,
PG&E,
PXP Company,
REC Solar,
Sempra Energy Utility

Demographics

- ▶ One of two high schools opened in the 2008–2009 school year in a high School district with 18 comprehensive high schools
- ▶ 1250 9–11th grade students
- ▶ 4 feeder schools, from two different districts
- ▶ 32% Caucasian, 49% Hispanic, 11% African–American, 8% other
- ▶ Title I school with 44% free and reduced lunch
- ▶ 8% of students in special education

The Selection of Students

- ▶ Student Interest Questionnaire
- ▶ Test Scores
- ▶ Parent Commitment
- ▶ Recommendations from math, science, and English teachers
- ▶ Essay showing commitment to program



The 9th and 10th Grade Curriculum

9th Grade:

Math and Science

10th Grade:

Math, Science,
English, Social Studies,
foreign Language, PE,
Fine Art, Problem??

**How do you fit in the
Academy class**



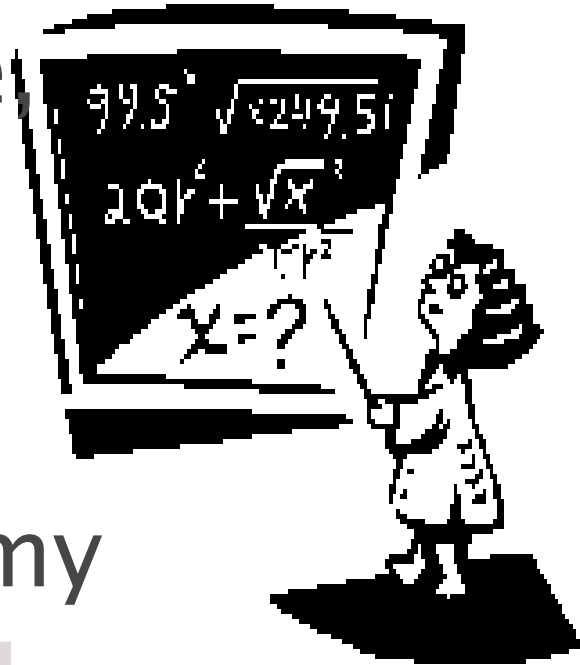
11th and 12th Grade Curriculum

11th Grade:

Math, Science, English, Social
Studies, Foreign Language
Fine Art, Academy

12th Grade:

Math, Science, English,
Government/Econ, Academy



Components in Place

The Advisory Group

- ▶ It begins with an active, enthusiastic group of people who are willing to communicate, take chances, and be actively involved with the outcome.
- ▶ Look at connections with and through your Chamber of Commerce

The “Fixes” Outside

Think



The

Box

ONE Solution

- ▶ Innovative strategy (ies) that utilize the strengths of our business resources to connect the students with the vast array of opportunities within the academy model. Create an approach that can accommodate everyone's busy schedules.

AN EVENING CLASS!!

We all Win

- ▶ Students do not have to choose
- ▶ Industry partners can be much more active and NOT leave work
- ▶ Parents can participate in events and activities

Business Partners Teaching

- ▶ Monday night class co-taught with business partners and CTE teacher
- ▶ How to:
 - Sign ups
 - Topics
 - Schedule
 - (mutual training – best practices shared amongst them)

Curriculum

- ▶ Teachers often don't know industry and industry practices
- ▶ Industry partners often do not know teachers and student audiences
 - Discuss what they want, what you must do and what the overlapping big ideas are.
- ▶ Get to know one another's language
- ▶ Development of curriculum is not completed in one sitting and/or one project

PPT → Roundtable → Forum

- ▶ Evolution of projects and activities develop over the years.
- ▶ Just like in the classroom – leave time for discussion, utilize input from partners and implement change.
- ▶ Example of project evolution

Another Academy Component

- ▶ Mentoring
 - Where do you find mentors?
- ▶ ASK, ASK, ASK around
- ▶ Chamber of Commerce
- ▶ Use your contacts from grant application process and network from there

Mentoring

- ▶ Set up in advance
- ▶ Set up mentoring dates at regular intervals so that the business people can plan ahead.
- ▶ Set up mentoring **during** the day. All at once, all at one time, done in groups (3:1 ratio if possible) – use your CTE class to “host” event.

What do mentors do??

- ▶ Pre-arrange curriculum – Talk to them... ask them what THEY want from mentoring. – Discuss important overlapping ideas. SOFT SKILLS seemed to be the MOST important to employers.
- ▶ AWE a local grant/connection
- ▶ Contact workforce development programs to find out about outreach activities/ grants (Jr. Achievement)

Field trips

- ▶ Transferring classroom contact into field experience

Dairy Farm (Biomass)

VIP Tour (Energy experts)

Green Expo

Engineering Day

Nuclear Power Plant

Solar/Wind Farms

Science Fair

Colleges

Questions???

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- ▶ Stacey's email:
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- ▶ Bill's email: bill_parviainen@khsd.k12.ca.us

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