



CALIFORNIA COMMUNITY COLLEGES

Doing What MATTERS™

FOR JOBS AND THE ECONOMY



Health Workforce Initiative

LINKED LEARNING

Presenters: Sue Hussey & Avanté Simmons

Healthcare Workforce Initiative/CCCCO

WHAT.....Linked Learning

...an innovative approach to high school reform that seeks to prepare students for both college and career by connecting learning in the classroom with real-world applications in the workplace.



The Four Pillars of Linked Learning

AB-790: statewide effort to improve student outcomes, transform high schools, and align K–12 education with workforce and economic development needs.

- ✓ Rigorous Academics
- ✓ Real World Technical Skills
- ✓ Work-based Learning
- ✓ Personalized Support Services

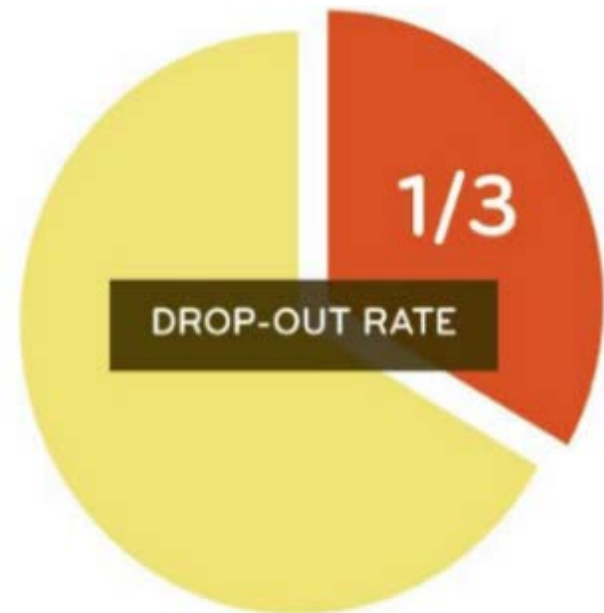
WHY.....Linked Learning ?

BY 2018, **63 PERCENT**
OF ALL U.S. JOBS WILL REQUIRE
SOME EDUCATION BEYOND HIGH SCHOOL



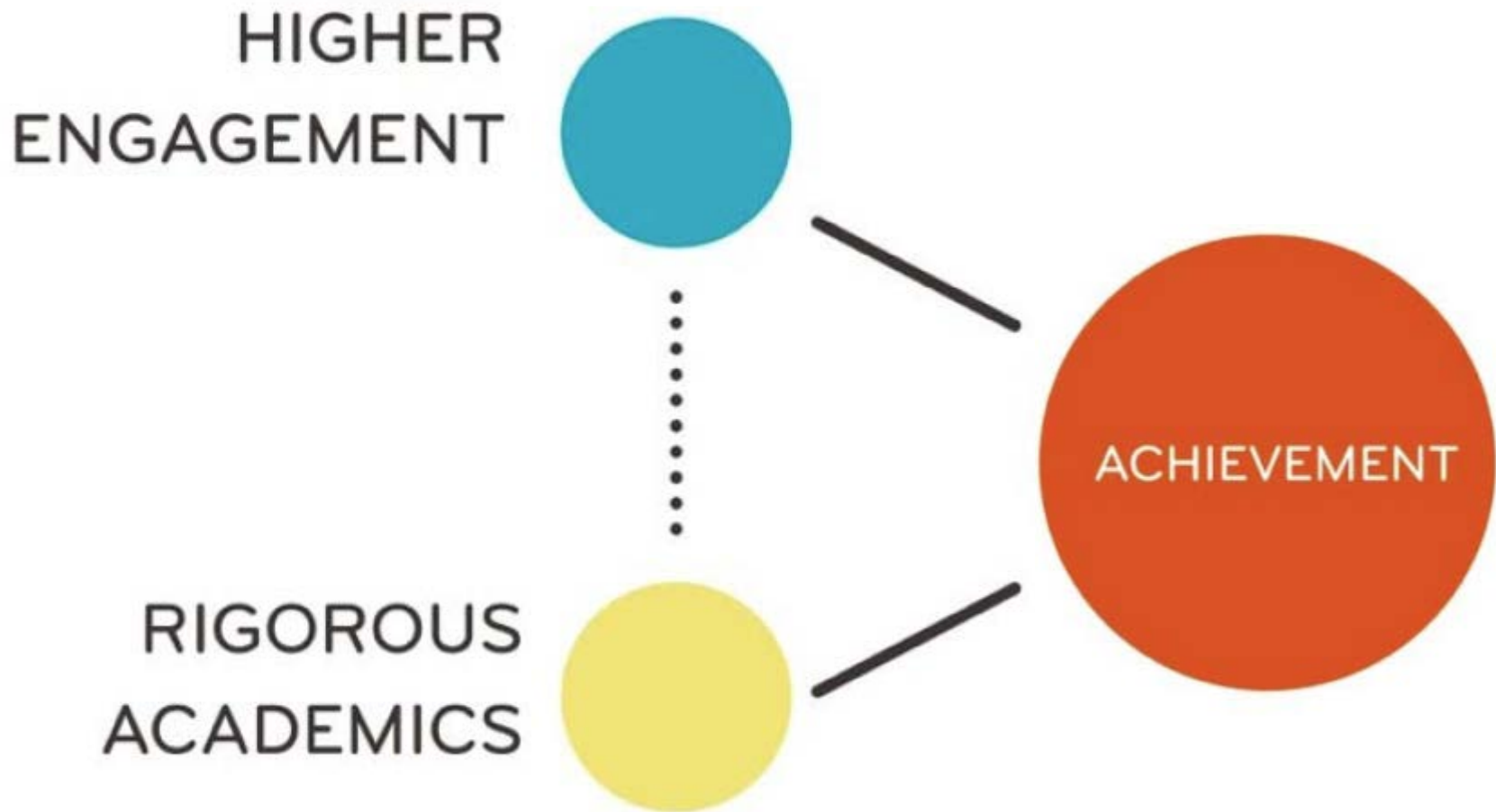
**LINKED
LEARNING™**

creates passion for
education which allows
the bar to be set higher



**Nearly 1/3 of all high school dropouts
are 9th graders**

THE IMPACT ON 9th -12th GRADERS



Evidence – Learning in Context

Research shows that many people learn better and faster, and retain information longer, when they are taught concepts in context (Sticht et al. 1987).

Evidence – Higher Earning Power

MDRC study:

- Examined outcomes of 1700 students in Linked Learning career academies.
- Predominantly minority students.
- Four years after graduation, graduates (both M and F) were earning more than traditionally educated counterparts.
- Academy males earned 18% more over the four-year period after high school.

Evidence – Higher Academic Achievement

Higher pass rates on California High School Exit Exam:

- 71% of African American students in academies passed the math, compared with 55% of all African American students in the state

Graduation rates better:

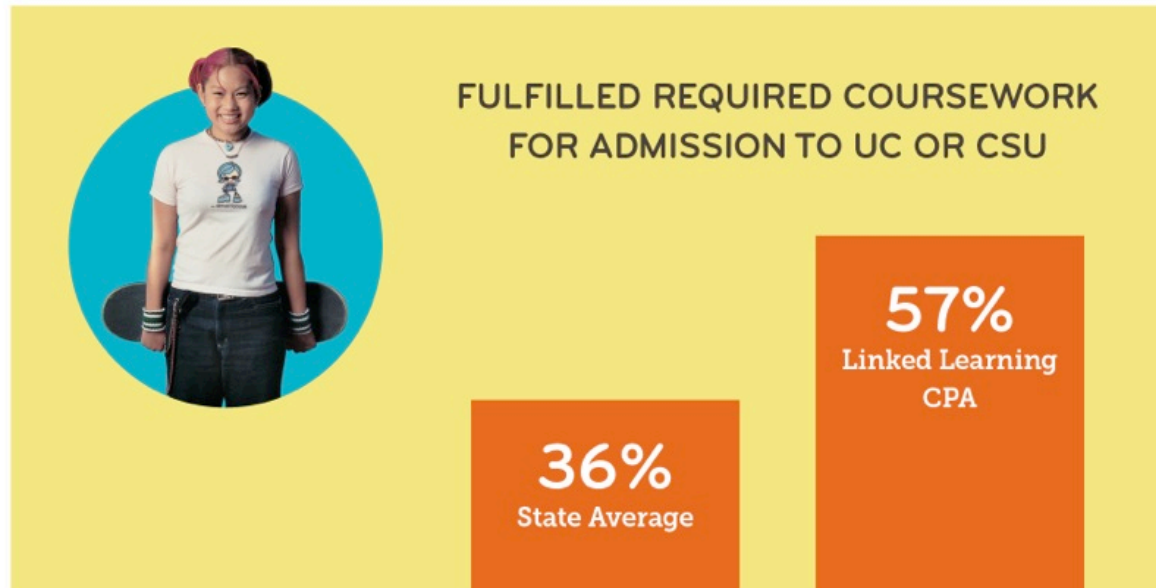
- 96% of academy seniors graduating compared to 87% of high school seniors statewide.

Research shows that Linked Learning students of all demographic profiles have higher test scores and higher graduation rates than their peers at traditional high schools.

Evidence – Higher Academic Achievement

LINKED LEARNING: A PROVEN APPROACH

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SOURCE: Howell, Jessica S. What Influences Students' Need for Remediation in College? Evidence from California. California State University, Sacramento. Accessed at http://www.csus.edu/indiv/h/howellj/papers/RemediationCSU_JHowell.pdf
Profile of the California Partnership Academies 2009-2010, UC Berkeley (2011) http://casn.berkeley.edu/downloads/CPA-report-execSum_2010-11.pdf



Evidence – Higher Postsecondary Participation

A Model for Success: CART's Linked Learning Program Increases College Enrollment

Seven-year study, based on data from the California Partnership for Achieving Student Success (Cal-PASS), found that attendance in Linked Learning more than doubled the rate of college entrance for minority students and increased college enrollment rates for all student populations compared to local and state student populations.

Sample Pathway: Health Professions High School, Sacramento

Subject	High School				Before/After School Opportunities	Related Occupations
	*UC a-g Approved Courses					
	9 th	10 th	11 th	12 th	0 Period and 7 th Period Options	Nursing (all types)
English	Medical English 9*	Medical English 10* (2015-2016)	Medical English 11/ AP English 11* (2015-2016)	Med English 12*/ AP English 12*	College Course Opportunities	Doctor
Math	Integrated Math I*	Geometry* (Medical Math 2015-2016)	Algebra II*	Pre-Calculus*/ AP Calculus*	College Course Opportunities	Radiologist
Science		Medical Biology*	Medical Chemistry*	Medical Physics* (2015-2016)	Bio 100 / Medical Terminology (Sac City College Courses at HPHS)	Veterinarian
History / Social Science	Geography/ CGI	World History*	US History and Public Health*	Economics/ Government	College Course Opportunities	Respiratory Therapist
Foreign Language / Art / PE	PE and Drama*	Spanish I* or Native Speakers*	Spanish II* or Native Speakers*	Medical Spanish III* and PE	College Course Opportunities	Dietician
Medical Science	Medical Science 9*	Medical Science 10	Medical Science 11	Medical Science 12	College Course Opportunities	EMT
Work Based Learning Opportunities	Suturing Lab Hospital Visits Integrated Units Community Service	Summer Scrubs Saturday Academy Guest Speakers Job Shadowing Integrated Units Community Service	Summer Scrubs Saturday Academy Guest Speakers Internships Integrated Units CPR Certification Community Service	Summer Scrubs Saturday Academy Guest Speakers Internships Senior Project Community Service	After School Academy Tutoring and Clubs Opportunity to Play Sports at West Campus	Cardiologist
						Pediatrician
						CNA
						Physical Therapist
						Sports Medicine
						Health Care Law
						Public Health Policy
						Hospital Administration
						Many more!



Sample Integrated Unit: Risky Business

Class	Activities or Assignments	Class	Activities or Assignments
Medical Science	<u>Tri-Fold Assignments:</u> - Negative Impacts Information Sheet - California Laws Information Sheet <u>Research Paper Assignments:</u> - Negative Impacts Paragraph - California Laws Paragraph	World Geography	<u>Tri-Fold Assignments:</u> Create and compile results of HPHS student survey History / Background of the Risky Behavior <u>Research Paper Assignments:</u> Incidence of Risky Behavior Paragraph Why People Engage in Risky Behavior Paragraph History/Background of the Risky Behavior Paragraph
English	<u>Tri-Fold Assignments:</u> Establish groups Create name, logo, slogan Create tri- fold <u>Reading Assignments:</u> “Shattered Air” “Headbanger Nation” “Tobacco and Your Health” “Drugs and Health” <u>Research Paper Assignments:</u> Complete final research paper Understand APA references Understand transition phrases	Math	<u>Tri-Fold Assignment:</u> Develop a graph to display results of survey <u>Research Paper Assignment:</u> Graph (Appendix)
		Drama	<u>Tri-Fold Assignment:</u> Public Service Announcement (PSA) script
		P.E.	<u>Tri-Fold Assignment:</u> Bumper sticker <u>PE Curriculum:</u> Digital Literacy and Citizenship Violence on Television, Gangs, Sleep <u>Research Paper Assignment:</u> Alternative Options / Healthier Choices Paragraph

RESOURCES

Linked Learning Alliance, a statewide coalition comprising over 250 educators, industry professionals, and community leaders www.linkedlearning.org

- **Build** awareness and understanding of linked learning.
- **Advocate** for policies that support high quality implementation.
- **Expand** linked learning opportunities for students.
- **Leverage** resources and expertise to promote linked learning
- **Boost** Alliance membership

More Resources

- ConnectEd – The California Center for College and Career www.connectedcalifornia.org
- Center for Powerful Public Schools <http://powerfulled.org>
- College and Career Academy Support Network <http://casn.berkeley.edu/>
- National Academy Foundation <http://naf.org/>
- Policy Analysis for California Education <http://edpolicyinca.org/>