

When teachers construct **powerful invitations** to engage EL students in language use in worthwhile disciplinary contexts, they can develop conceptual understandings, analytical practices, and **dynamic language use** in the domain, enabling them to **succeed** in school and beyond.

English Language Learners and the New Standards
Heritage, Walqui, Linquanti

<http://bit.ly/alimaker>

Using Maker Education to Leverage Language Opportunities for English Learners

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What is this movement we call Making?



What is Maker Education?

Make: to cause something to be successful

- Maker Education is an opportunity for young people to develop **confidence**, **creativity**, and **interest** in science, technology, engineering, math, art, and learning as a whole through making.
- Students will be more effective problem solvers if they have a hand in posing the problems.

Making and growth mindset

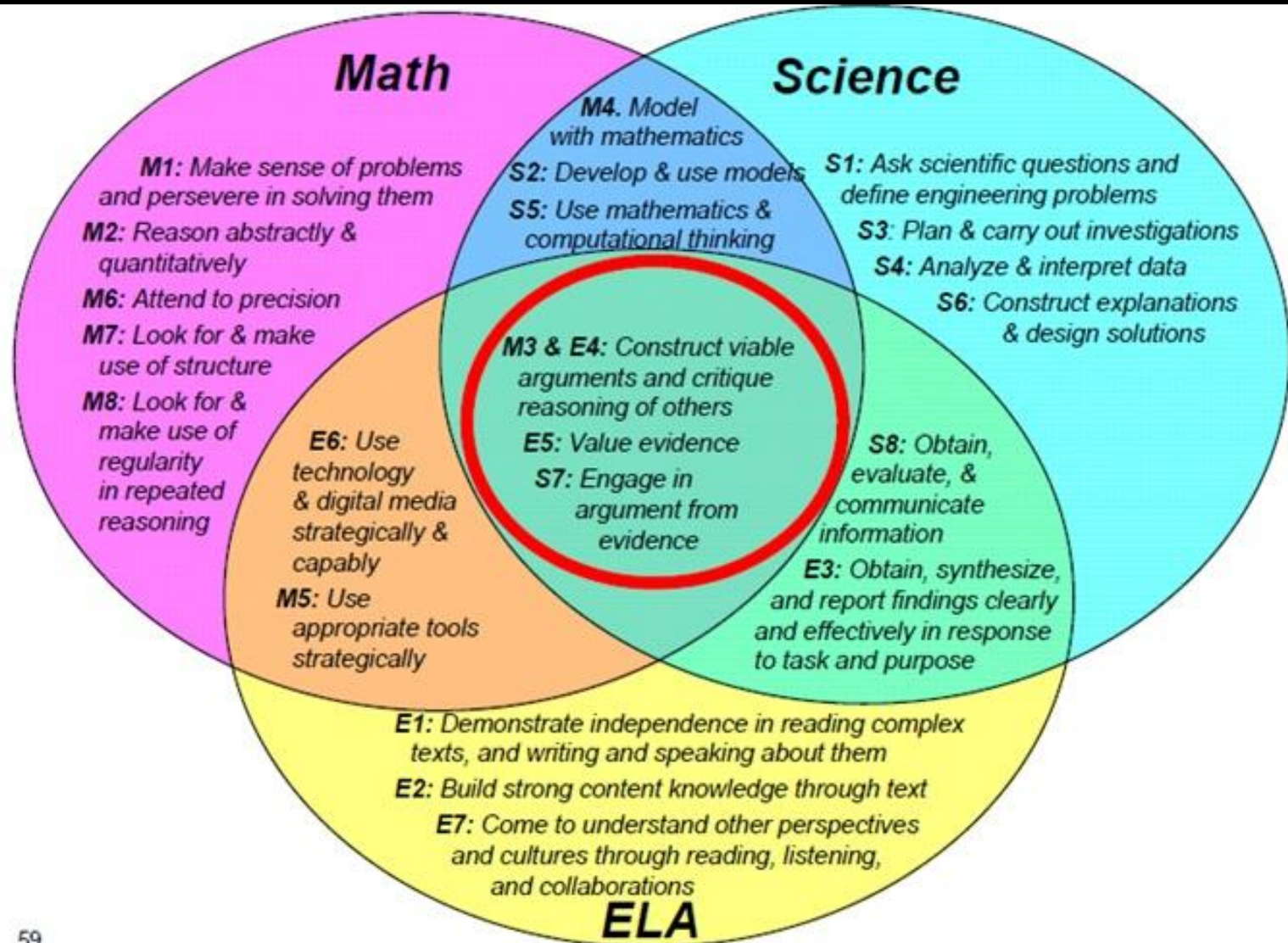
- Fostering the maker mindset through education is a fundamentally human project—to support the growth and development of another person not just physically, but mentally and emotionally.

~ Dale Dougherty

- People with a growth mindset tend to believe that capabilities can be developed, improved, and expanded.

~Carol Dweck

Math, ELA, and Science Practices Overlap to Support Each Other



The Maker Education Benefit: Getting A Lot For Your Investment

Engagement



The Maker Education Benefit: Getting A Lot For Your Investment

Perseverance



The Maker Education Benefit: Getting A Lot For Your Investment

Engineering and design practice



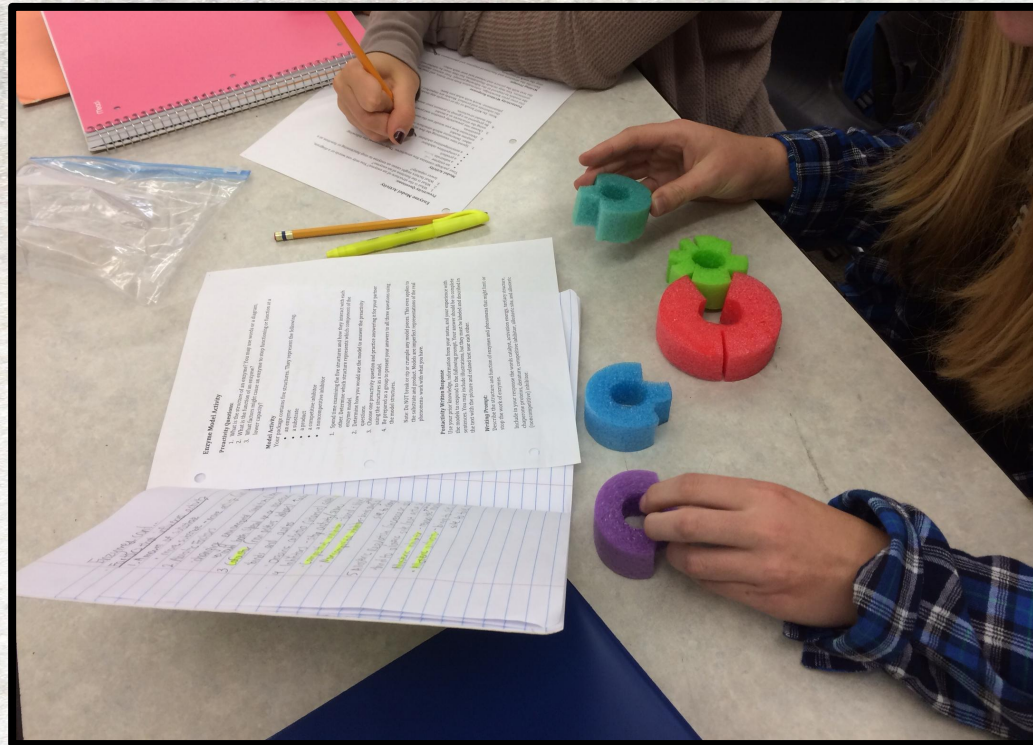
The Maker Education Benefit: Getting A Lot For Your Investment

Meaningful opportunities for collaboration and dialogue



The Maker Education Benefit: Getting A Lot For Your Investment

Academic Language



Sonoma County is a Hub for Maker Education

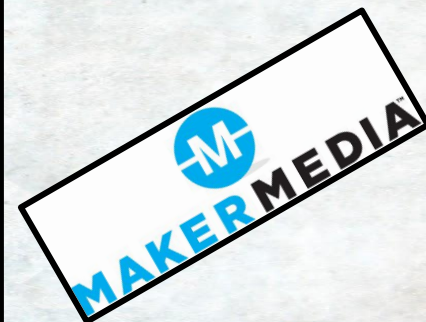


Audrey and Lily
Meadow Elementary School

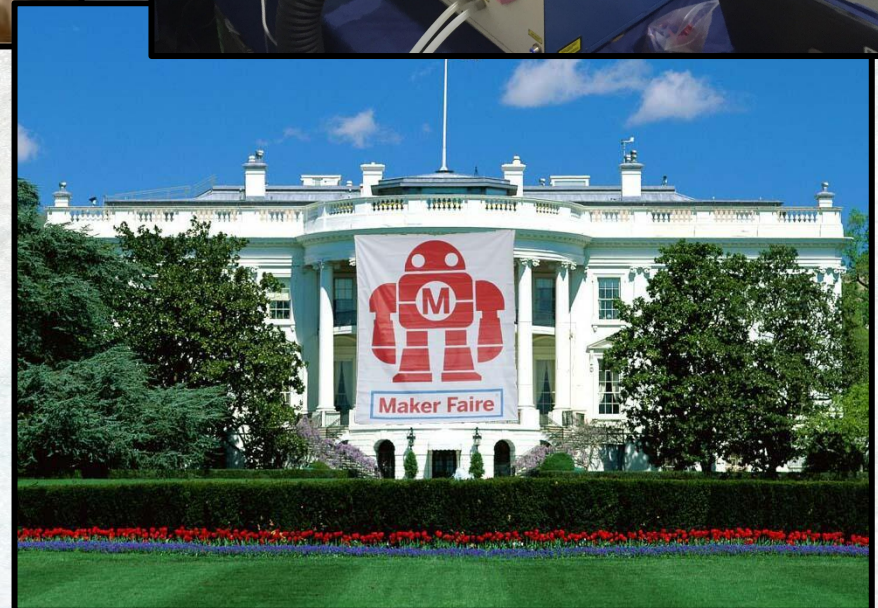
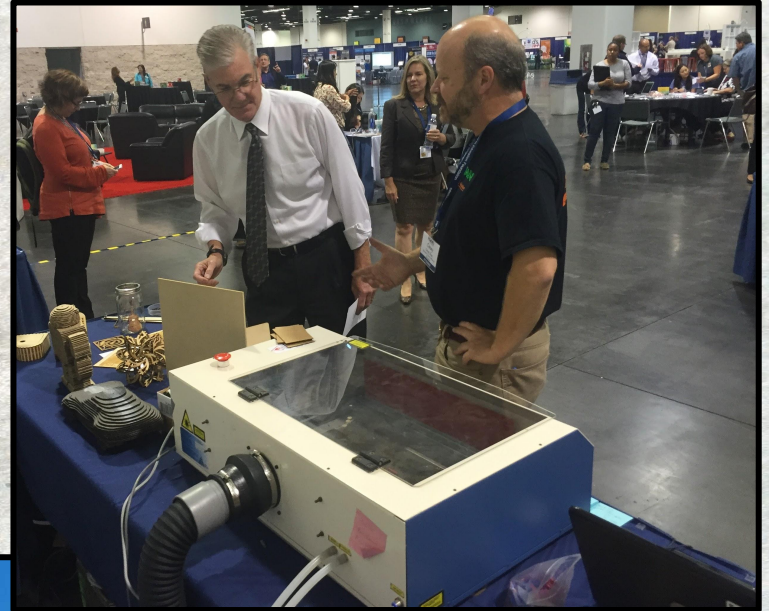
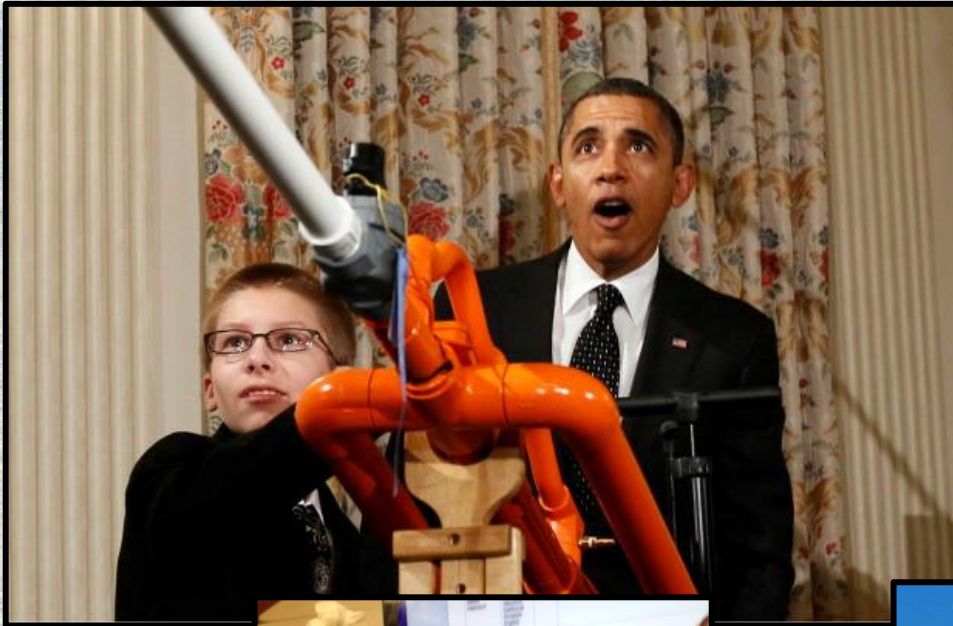


THE DEVELOPMENT
& GROWTH OF THE
**MAKER
MOVEMENT**
IN SONOMA COUNTY SCHOOLS

Cultivating a Maker Educator Network across K-12



Maker Momentum is Picking Up Throughout State and Nation



Maker Education and 21st Century Learning

creativity



communication



collaboration

critical thinking





Why Maker Education
and English Learners?

Making is about developing one's full potential.

Dale Dougherty



60%

Reparable Harm

Fulfilling the Unkept Promise of
Educational Opportunity for California's
Long Term English Learners



Laurie Olsen, Ph.D.



A CALIFORNIANS TOGETHER RESEARCH & POLICY PUBLICATION

NATIONAL EDUCATION ASSOCIATION

Meeting the Unique Needs of Long Term English Language Learners

A GUIDE FOR EDUCATORS

By Laurie Olsen, Ph.D.

nea NATIONAL
EDUCATION
ASSOCIATION

Great Public Schools for Every Student

Non-engagement.

Passivity.

Invisibility.

What Can We Do??

- ❑ Build an inclusive and affirming school climate to engage LTELs in full school participation, **healthy identity development**, and positive intergroup relationships
- ❑ End the social and structured isolation of ELs through **activities that build relationships** across groups

Meeting the Unique Needs of Long Term English Learners

Dr. Laurie Olsen

Long Term English Learners need daily structured opportunities, **invitation**, and support to share responses, collaborate with peers, and present ideas

Meeting the Unique Needs of Long Term English Learners
Dr. Laurie Olsen

Maker Education
is a powerful invitation.

Key Shifts in the 2012 ELD Standards

Language development focused on
collaboration, comprehension, and
communication with strategic scaffolding to
guide appropriate linguistic choices



Key Shifts in the 2012 ELD Standards

English as a **meaning-making** resource with
different language choices based on
audience, task, and purpose

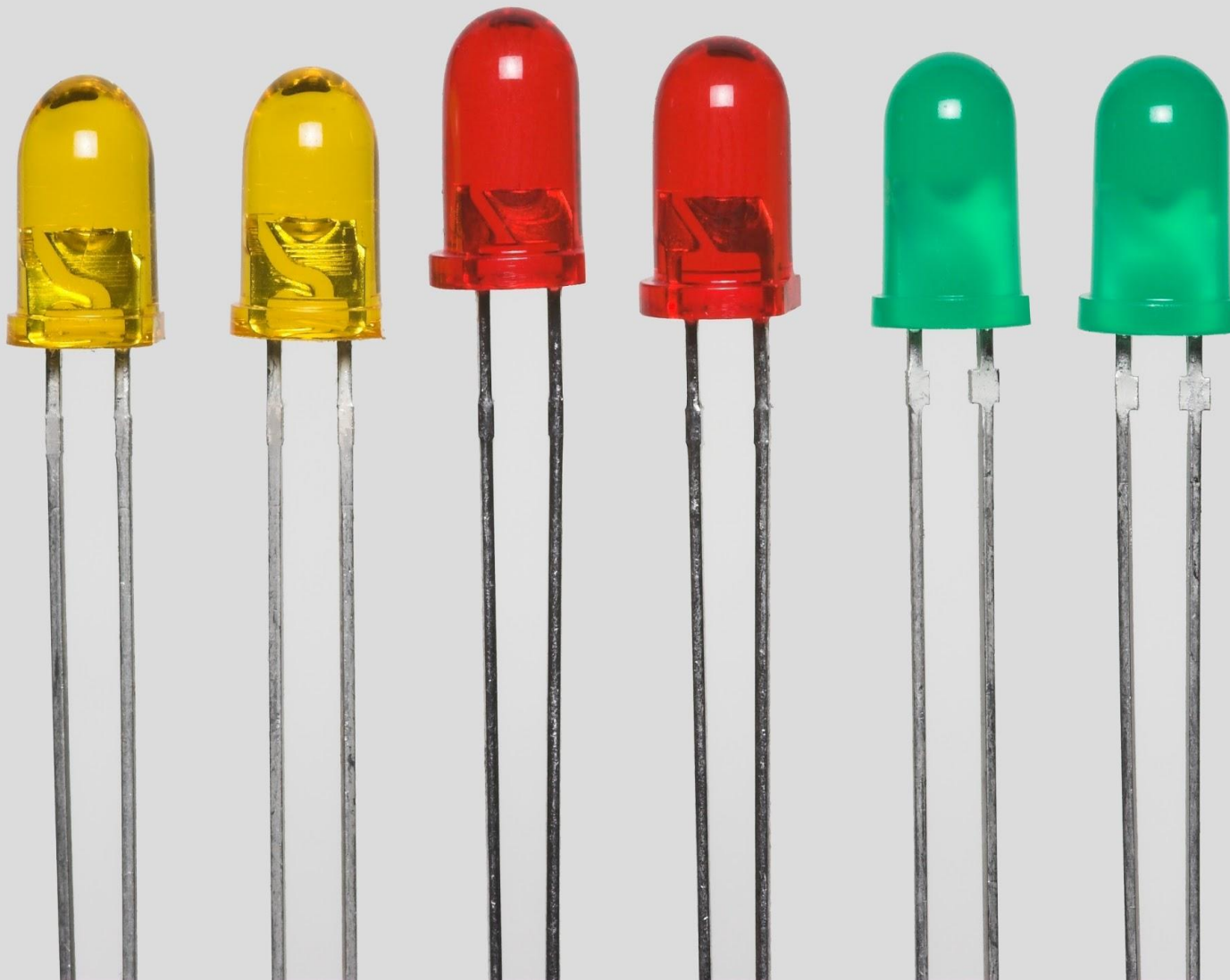


A large, solid red speech bubble is the central focus, pointing downwards towards a small silhouette of a person standing on a hill. The background is a light beige color with stylized, layered hills in shades of tan and brown at the bottom. The overall composition is simple and graphic.

YOUR TURN

As a **result** of this conference, what new understandings have you **developed** around **effectively** engaging English Learners?

A new understanding I have **developed** around **effectively** engaging English Learners is _____.



5 minutes





Think/Write

A new understanding I have **developed**
around **effectively** engaging English
Learners is _____.

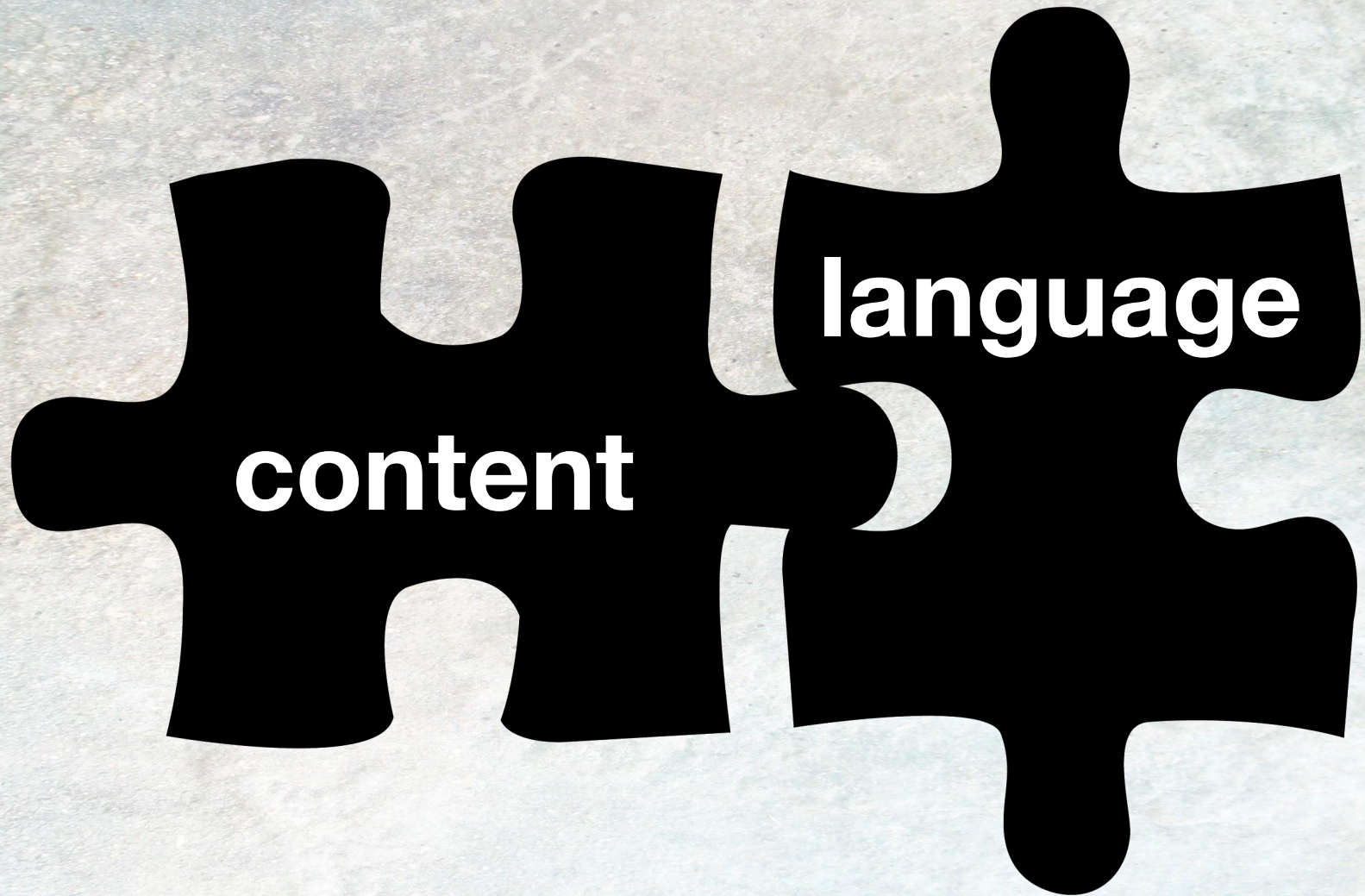


Share With a Colleague

A new understanding I have **developed**
around **effectively** engaging English
Learners is _____.



Integrated ELD



English Language Arts/ English Language Development Framework

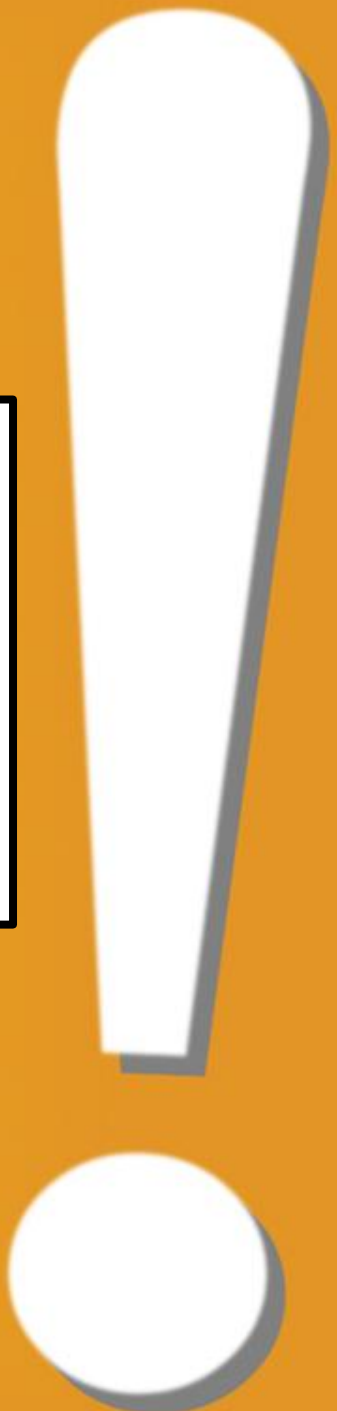
for California Public Schools

Figure 2.13. Categories of Vocabulary

Vocabulary	Definition	Examples
Conversational (Tier One)	Words of everyday use	<i>happy, dog, run, family, boy, play, water</i>
General Academic (Tier Two)	Words that are far more likely to appear in text than in everyday use, are highly generalizable because they appear in many types of texts, and often represent precise or nuanced meanings of relatively common things	<i>develop, technique, disrupt, fortunate, frightening, enormous, startling strolled, essential</i>
Domain-Specific (Tier Three)	Words that are specific to a domain or field of study and key to understanding a new concept	<i>equation, place value, germ, improvisation, tempo, percussion, landform, thermometer</i>

A new understanding I have
→ **developed** around **effectively** ←
engaging English Learners is _____.

Be **intentional** and **strategic**
about when and how to
build in academic language.

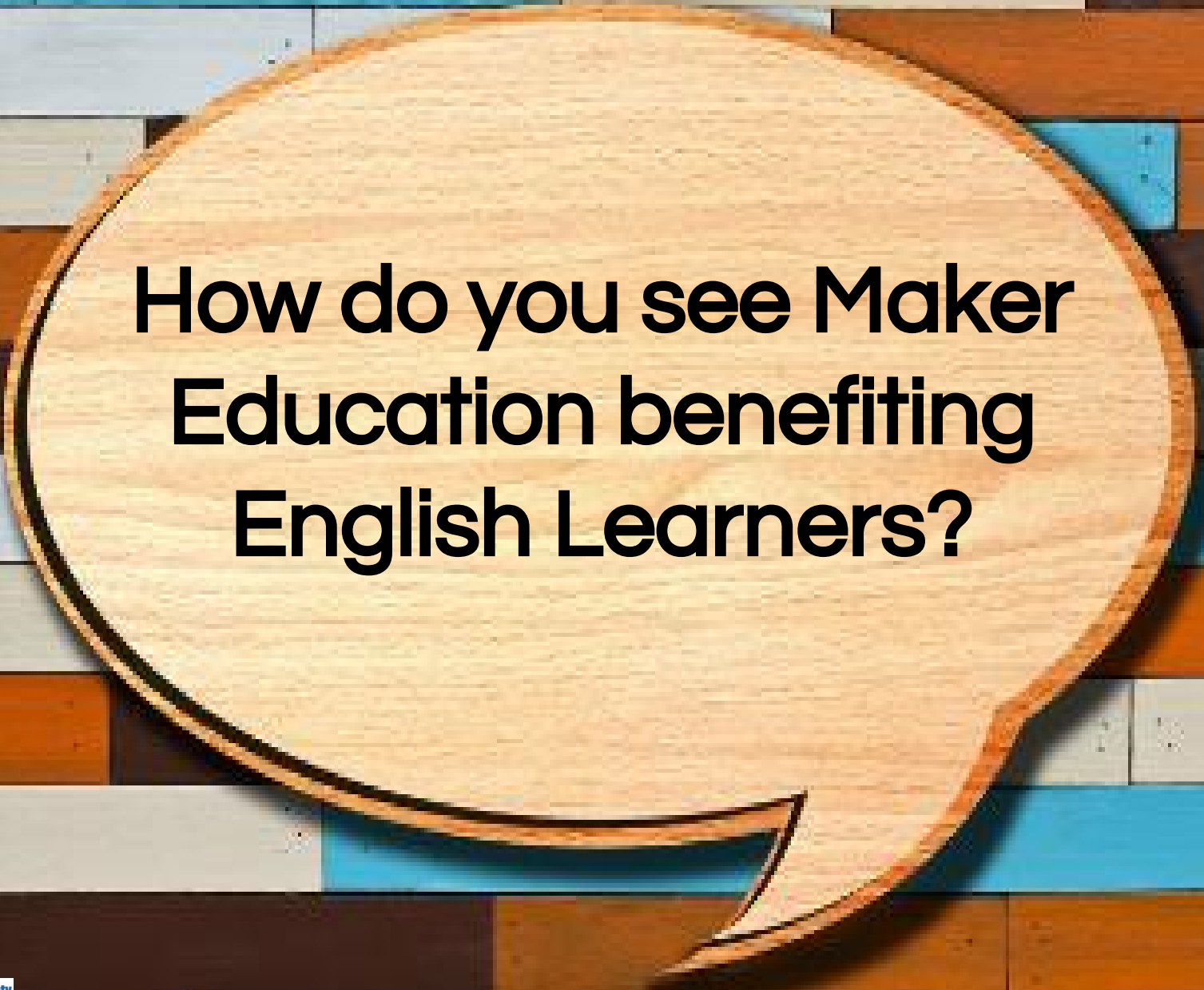


Higher levels of engagement create a **natural desire to express** what was learned and experienced.



Language as **action**
emphasizes communication and its
impact on language users.



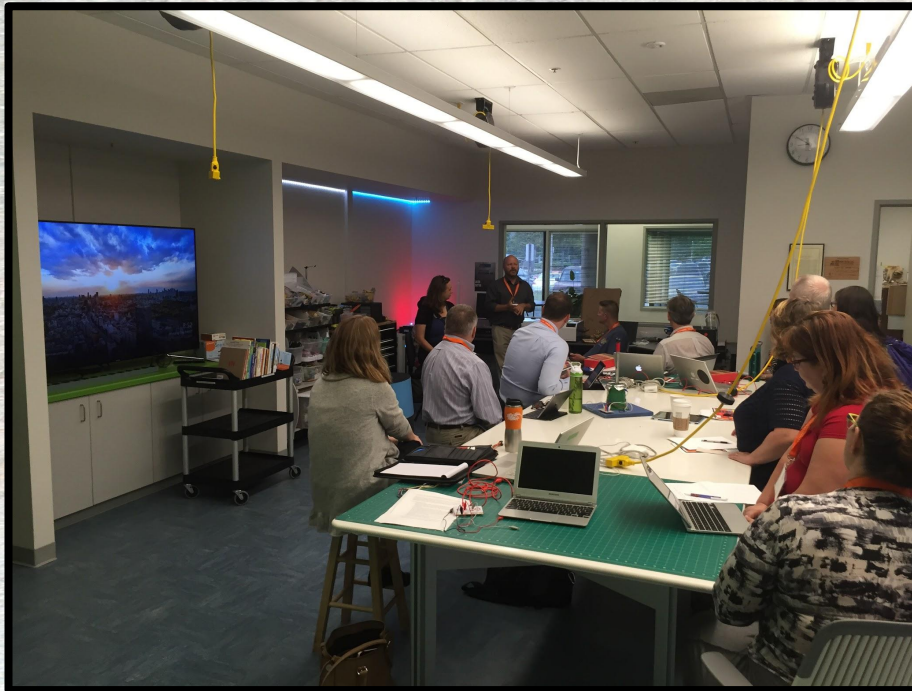


**How do you see Maker
Education benefiting
English Learners?**



SCOE Design Lab

*A Space for Making, Innovating,
Collaborating and Creating!*



MAKER CERTIFICATE PROGRAM

*A New Program for Maker Educators
at Sonoma State & Online*

Current Course List



Make:

FOUNDING PARTNERS



reMAKE
education
a maker summit for educators

August 3-5, 2016



Three days of...

Making, Learning, Networking

scoe.org/remake



TINKERING

Piensa con las manos





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