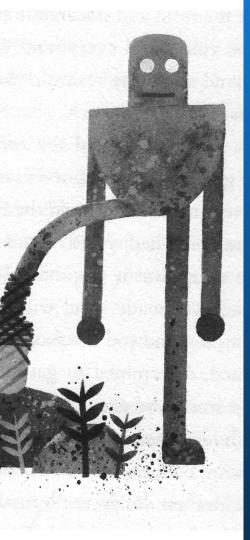




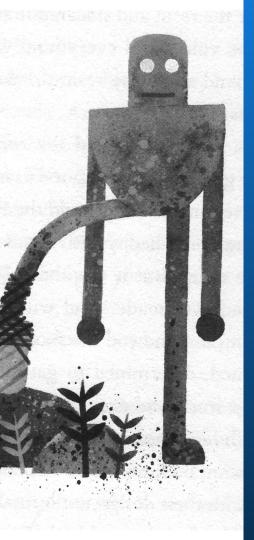


Unite: Robot Assembly Line





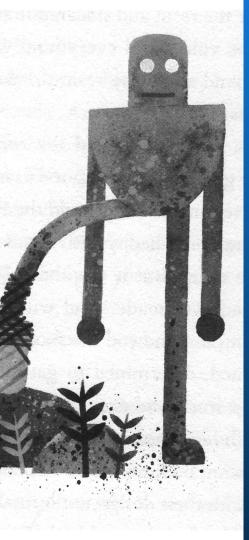
Disengage Stress: The Gosling





Connect:

Give an example of how your students "learn with their hands".





Commit



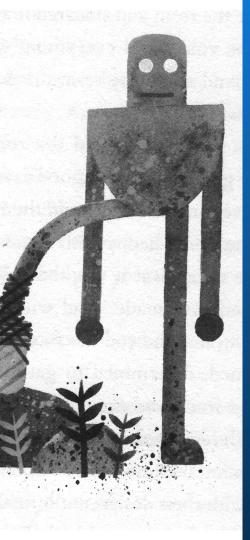
Artbots & Makerspaces

A Moonshot Institute Workshop







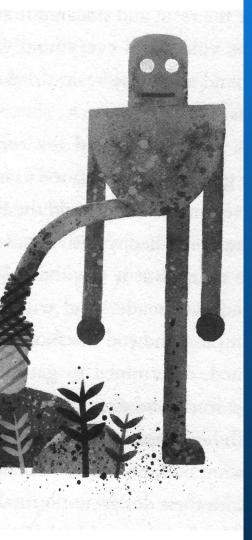


Learning Goals

connect literacy to **maker-space** experiences work through mistakes and practice **iterative processes**

understand **problem-solving** through **creative** solutions

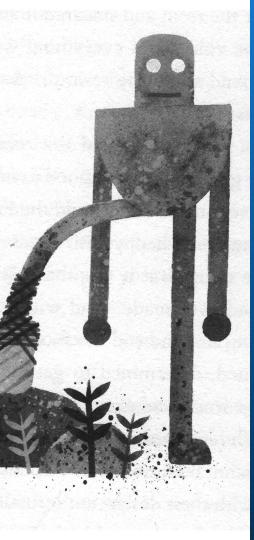
learn **physics/engineering** concepts through **hands-on** learning (circuits)



Essential Questions

Kids: How do we work together as a group to design and build something new?

Teachers: How do we design purposeful, literacy-based maker spaces?

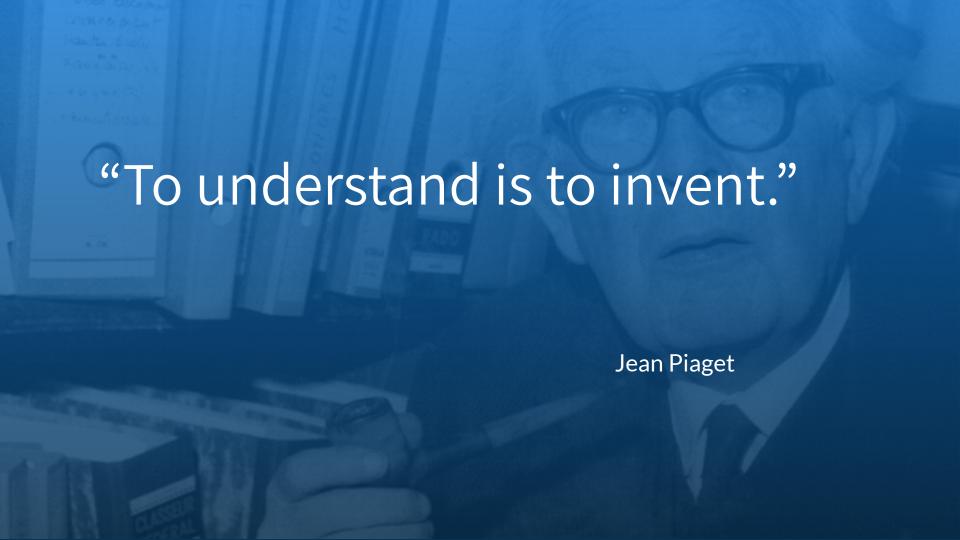


Alive Reading

"The New Foot," p. 150

"The hands are the instruments of man's intelligence."

The Absorbent Mind Maria Montessori





makerspaces.com

A makerspace is a collaborative work space inside a school, library or separate public/private facility for making, learning, exploring and sharing that uses high tech to no tech tools.



Nation of Makers Conference



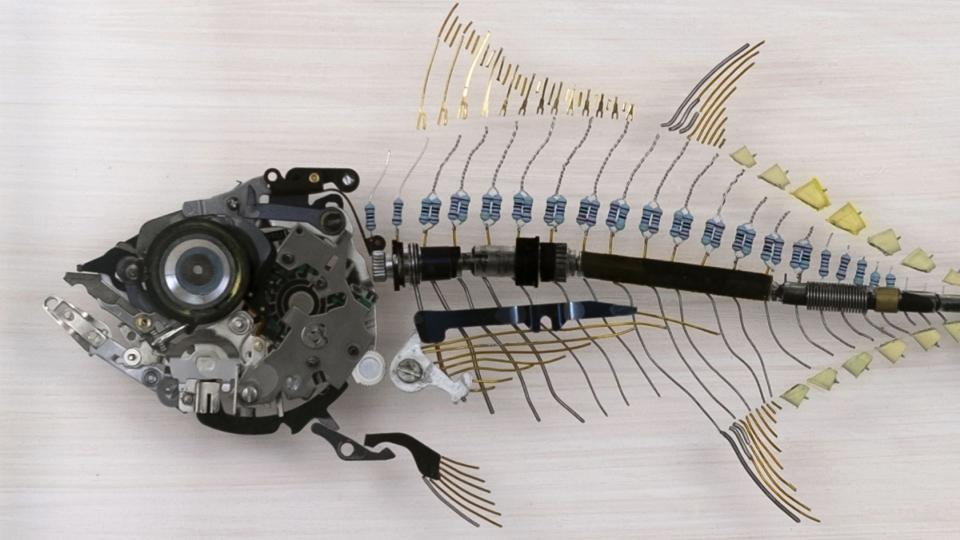
"Making is a way of bringing engineering to young learners. Such concrete experiences provide a meaningful context for understanding abstract science and math concepts."

Invent To Learn: Making, Tinkering, and Engineering in the Classroom











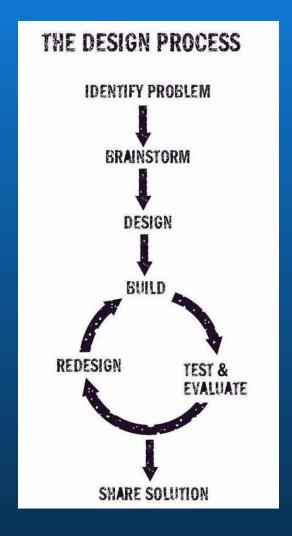




The Design Process

"So many of the designers that we interview don't know how to make stuff."

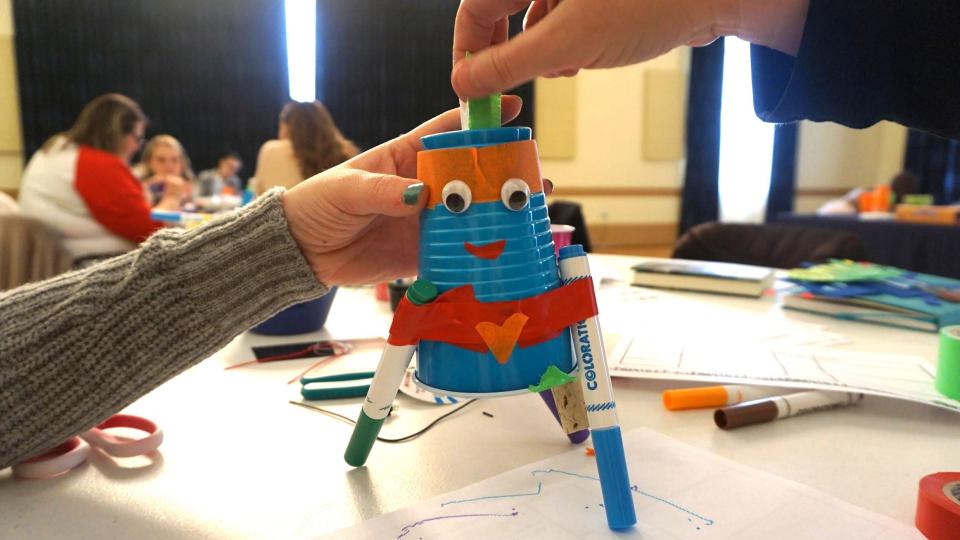
- Jonathan Ive, Apple's head designer



A MAKER SPACE EXPERIENCE

ART BOTS - AN INTRODUCTION













ArtBot Design Specs

Criteria	Description	Rating 1-7 (low to high)	Notes
Function	The Robot should move in a circular pattern staying on the paper continuously drawing for at least a minute without falling over.		
Form	The robot itself is aesthetically interesting having personality, distinct colors, and a compelling overall design.		
Production	The robot produces a work of art that is a harmonious marriage of color and form.		



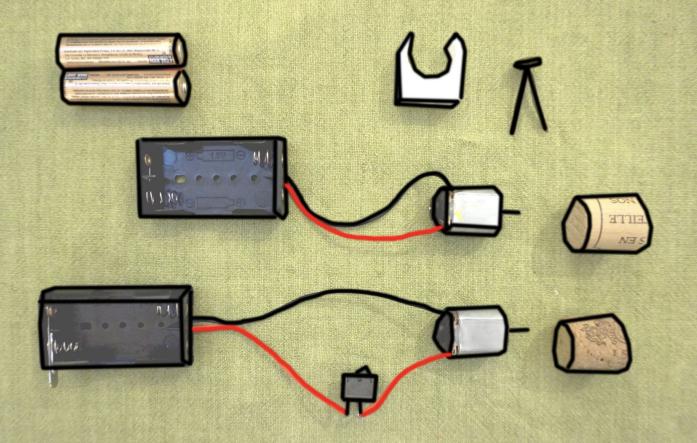








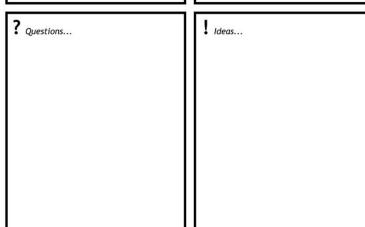




Design Thinking Reflection



→ What worked...

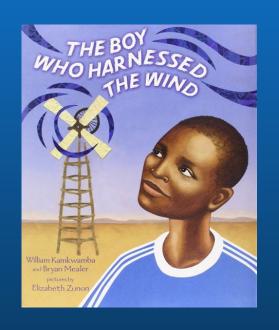


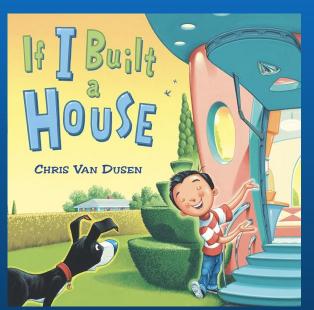


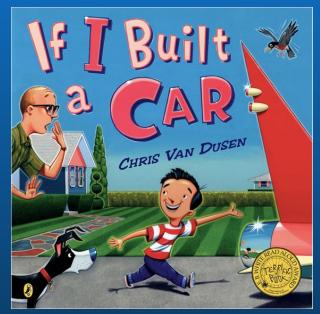
Character Development Guide



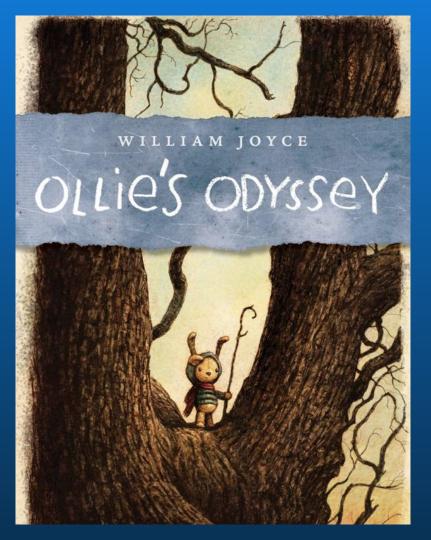
1. What is your name?	
2. Where do you live?	
3. What are your hopes?	
4. What are your fears?	
5. Who is your family?	
6. Who is your most important being?	
7. What is your secret power?	

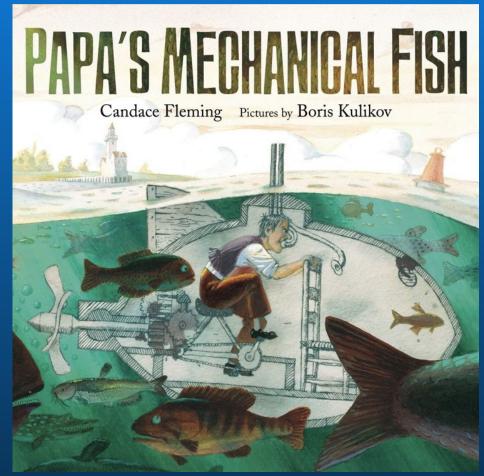


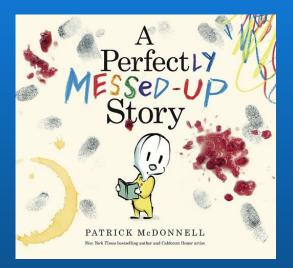


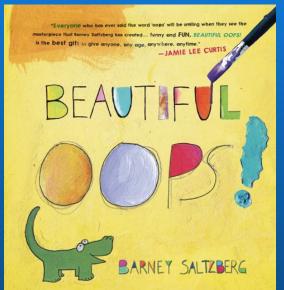




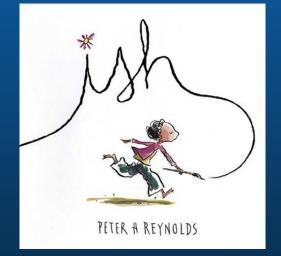


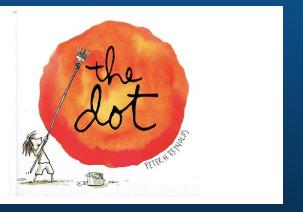


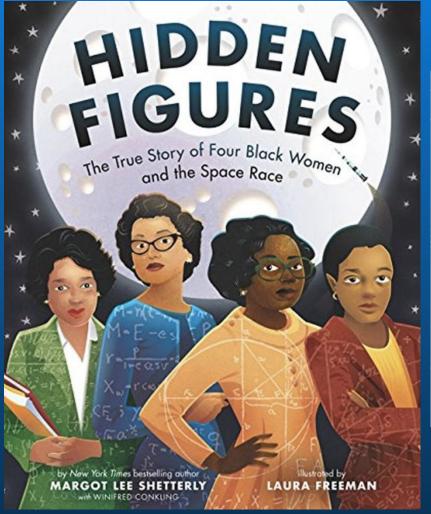


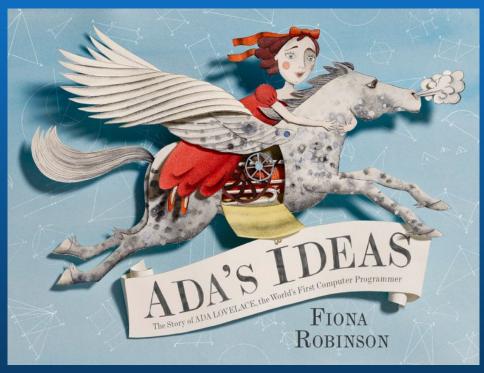


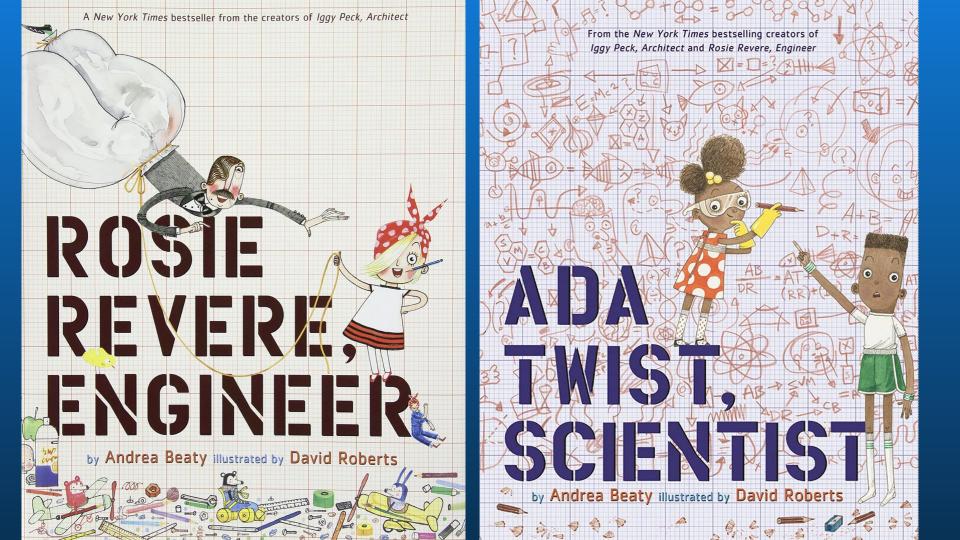


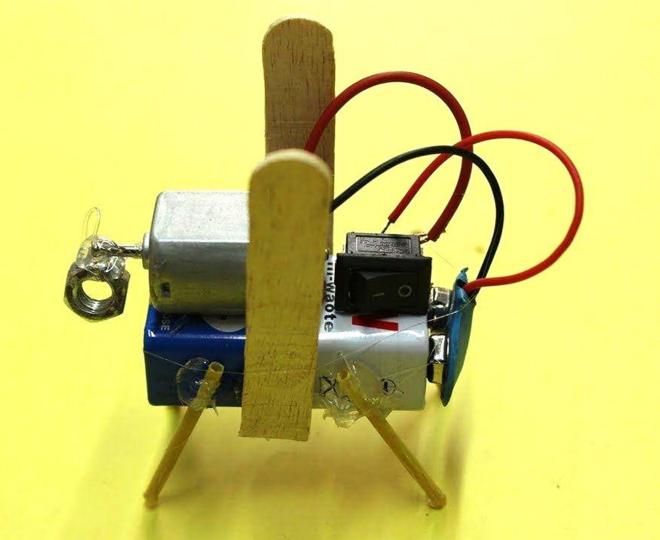




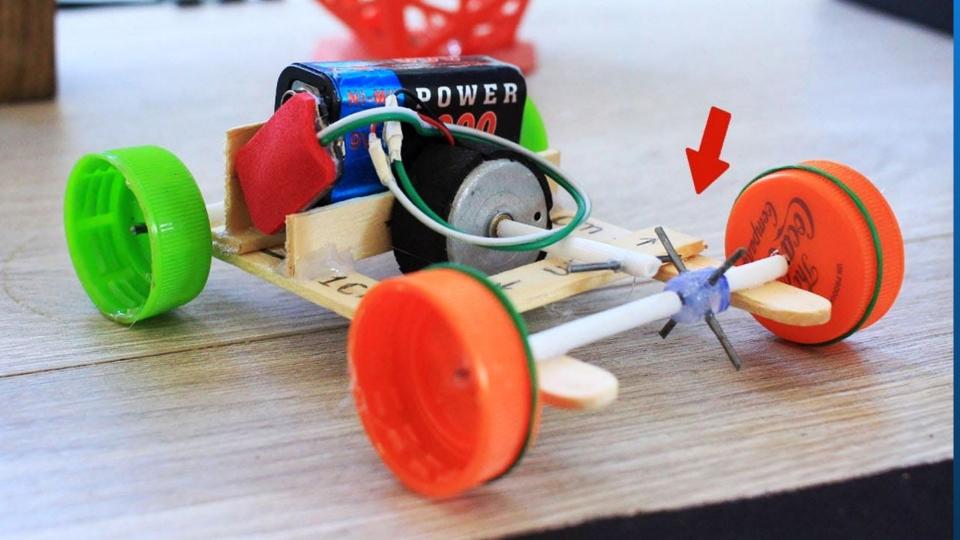


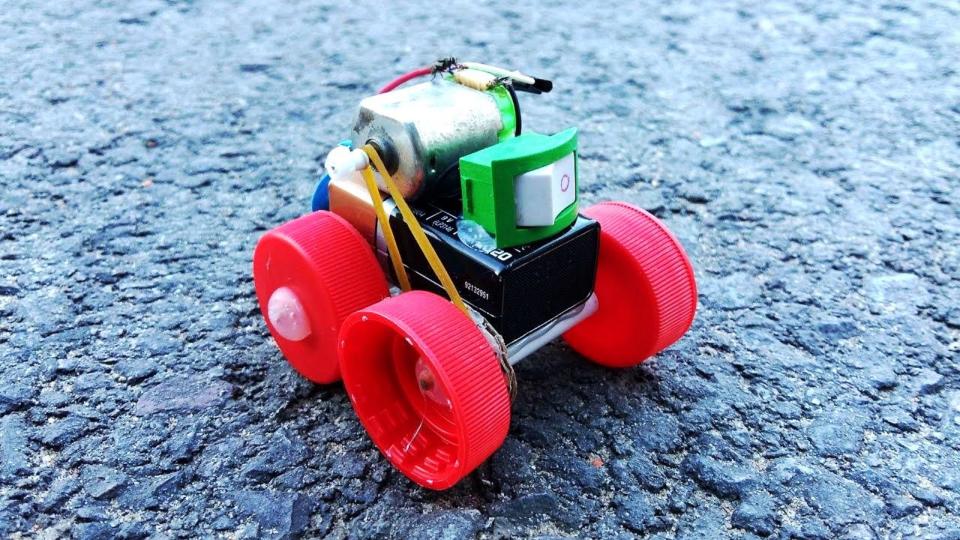




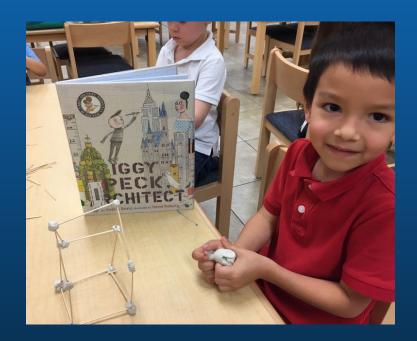


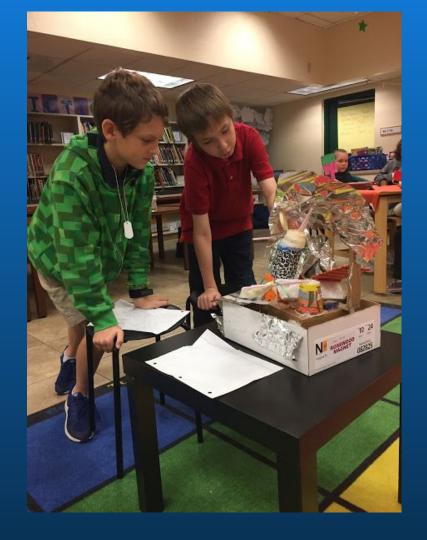






Top Tips for Literacy Makerspaces





Top Tips for Literacy Makerspaces

- 1. Be ok with the design process. Encourage mistakes & perseverance. Culture of kindness & collaboration.
- 2. Organized place for supplies
- 3. Plan for time
- 4. Be supportive, but get out of the way
- 5. Have clear goals in mind post and be specific for students. Intentional literacy skill connections.
- 6. Train & model use of tools with developmental appropriateness in mind
- 7. TAPE. Lots of tape.



Lunch 12:00-12:45

SHARE YOUR LEARNING

#Shareyourlearning

@TLA_Moonshot @MoonshotMoment

#MoonshotinAction

#MoonshotInstitute



The Language of Animals

A Moonshot Institute Workshop









Essential Question

How can we learn to communicate?



Learning Goals

Apply a previously learned strategy

Experience a complete literacy lesson

Incorporate technology with purpose





Impulse Circle





Jibberish



COMPREHENDING TEXT

Alive Reading

*add soundscape with Keezy





Warm & Cool Feedback



Tomorrow

AM: Putting it all together

PM: Culminating exhibition