Play-Based Learning in the Kindergarten Classroom and Beyond

October 15, 2024



Panelist



Kathy Hirsh Pasek, Ph.D. Professor of Psychology Temple University

Commentators



Loretta Brady, Ph.D.

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Saint Anselm College



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Kimberly Nesbitt, Ph.D. Primary Investigator, Early Childhood Initiative University of New Hampshire

Moderator



Diana Greene, Ph.D.

Chief Executive Officer

Children's Literacy Initiative

Active Playful Learning: Using a 3-part equation to support optimal student outcomes



Kathy Hirsh-Pasek
Temple University
Brookings Institution





As Yuval Noah Harari wrote in 2021



The Industrial Revolution has bequeathed us the production-line theory of education....It is easy to laugh at this model, and almost everybody agrees that no matter its past achievements, it is now bankrupt.

What the Year 2050 has in Store for Humankind

9



While the research is mixed "...there is evidence of the potential for today's early education programs to accomplish their goals of improving long term outcomes for many children" (Burchinal et al., Science, 2024, p. 506)







How do we meet this promise?

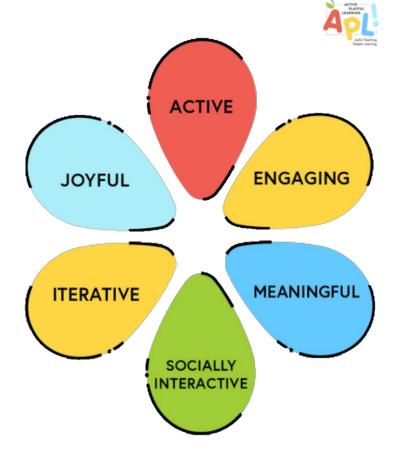
We teach in the way that human brains learn

This applies across curricula!!!



The science that shows us children grow when experiences are...

These pillars are embodied in the concept of active playful learning





When we focus on *how* children learn, we support *what* they need in school and life

THE 6 C's

COLLABORATION
COMMUNICATION
CONTENT
CRITICAL THINKING
REATIVE INNOVATION
CONFIDENCE









From the home to the school to the neighborhood to the broader community, to be successful we should align our efforts to the contexts in which children live. Creating two-way interactions between home and school creates agency for parents and > learning for students.



Active Playful Learning

An evidence-informed, 3-part equation to bring joy and deeper learning back to children's lives



Community + Family Values

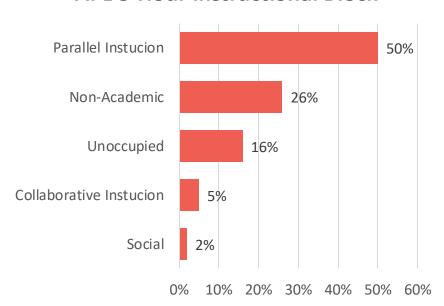
The science of *how* children learn

The science of *what* children should learn

Evidence of why schools need Active Playful Learning...

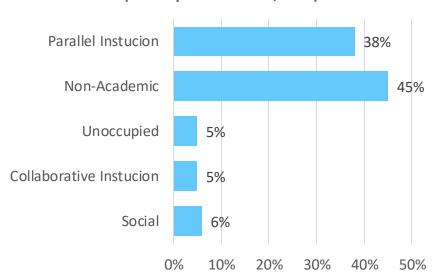
How K and Grade 1 Spends The School Days

APL 3-Hour Instructional Block



Tennessee All-Day Observations

(Christopher & Nesbitt, 2023)



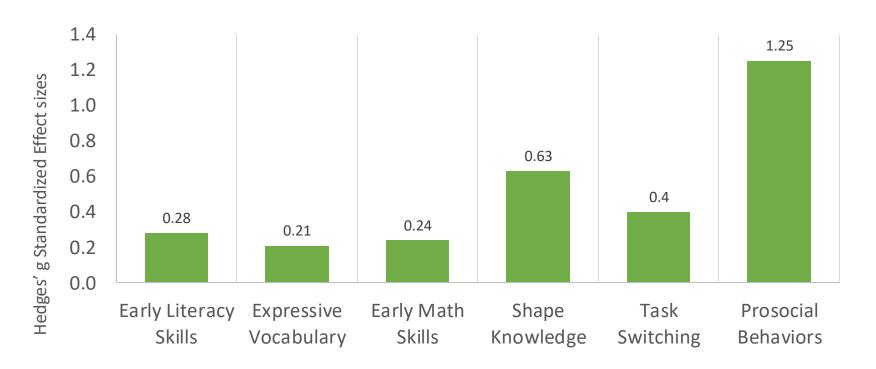
Maximizing APL in the Classroom



	Free Play	Guided Play	Playful Instruction	Direct Instruction
Explicit Learning Goal	No	Yes	Yes	Yes
Initiated by	Child	Teacher	Teacher	Teacher
Child Active Involvement	Yes	Yes	Yes	No
Child Agency/Choice	Yes	Yes	No	No
		Active Playful Learning		



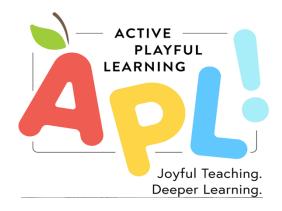
Playful Learning vs. Direct Instruction





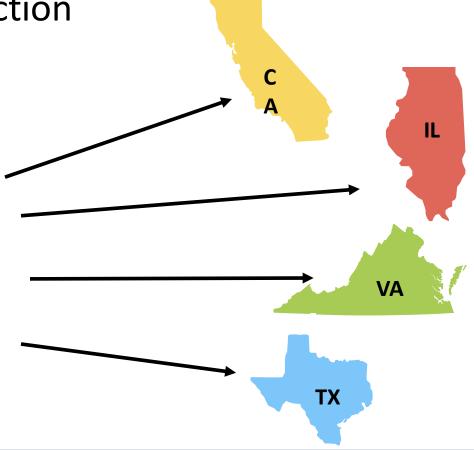
Active Playful Learning In Action

A coach-based intervention in grades K to 4th









The



- 1. Use small and paired groups
- 2. Increase **students' contributions** to interactions with peers and teachers
- 3. Support **hands-on and minds-on** exploration, discovery, and inquiry
- 4. Give students choice and voice in their own learning
- 5. Help students **connect their learning** to other experiences both in and out of school
- 6. Infuse enthusiasm and positivity into learning experiences

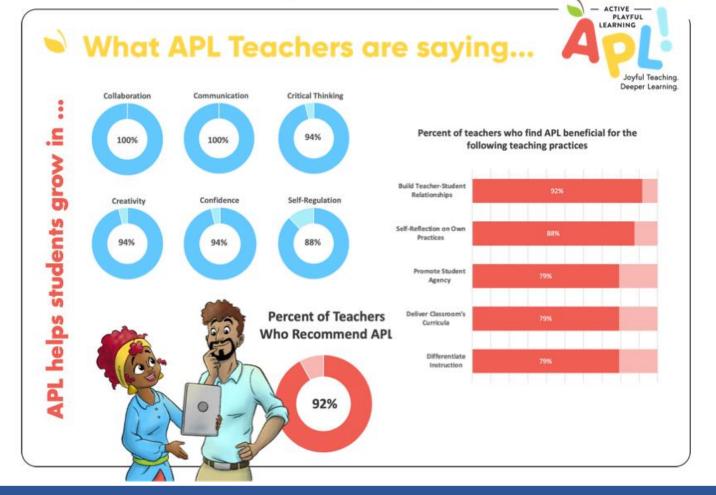


A taste of what it looks like...



- 1. Math lesson in Santa Ana, CA
- 2. Teaching Practice Video Library
 - Example Small & Paired Groups



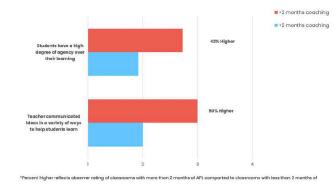




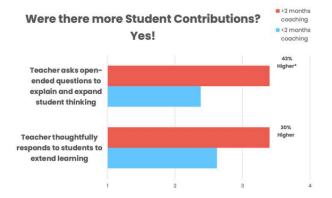
Observations of classrooms revealed...



Did students have more Voice & Choice? Yes!

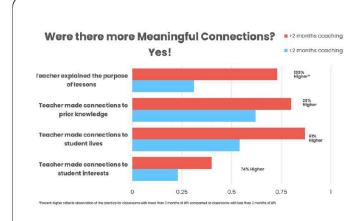


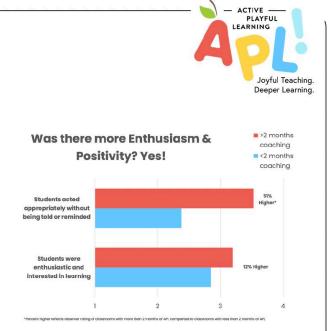




*Percent higher reflects observer rating of classrooms with more than 2 months of APL comparted to classrooms with less than 2 months of APL











To learn more about APL, please visit active playfullearning.com





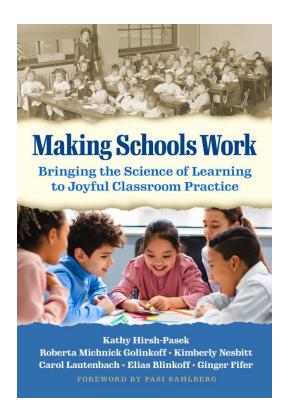
Active Playful Learning Across the Country

CT and NH legislation mandates training and implementation of play-based learning

OK and MA have led training on purposeful play

AL, NY, OR, PA, and many others' early learning guidelines highlight the importance of playful learning

NC, NH, and CO have playful learning credentials, certificates, or license requirements



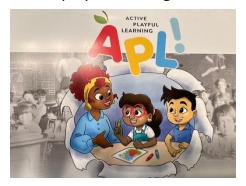
TO DATE, We developed...... **OUTREAC**





teachers reignite joy for their profession while students become deeper more creative thinkers.

Activeplayfullearning.com











Meet Eskayla! SAUSD APL Coach

Meet Eskayla, one of our three Santa Ana Unified School District coaches dedicated to integrating Active Playful Learning in classrooms.

With 13 years of teaching experience, Eskayla supports educators in creating engaging learning environments to enhance student outcomes. She holds a B.S. in Child and Adolescent Studies and an M.S. in Special Education, bringing a wealth of knowledge to her role.

Next Steps & Goals

- · Provide ongoing coaching support for APL teachers
- · Collaborate with local community organizations · Enhance community engagement in classrooms

Welcome to our APL Quarterly Bulletin!

What is Active Playful Learning (APL)?

Active Playful Learning offers professional development to educators based on the latest evidence in the science of learning. APL is a program built from a three-part equation that embraces: cultural and community beliefs

+ the how of learning + the what of learning.

- · Integrates playful learning strategies into existing curricula · Currently in: Pennsylvania, Michigan, New Hampshire,
- Virginia, Texas, Illinois, Philadelphia and California! . For more information, contact: Laurah8@uci.edu
- · Sponsored by the LEGO Foundation!

We are working alongside 15 amazing Santa Ana Unified School District teachers! Supported by 3 kind, hardworking and talented district coaches: Telly, Eskayla, & Damaris Lead Researcher: Santa Ana advocate and UCI professor, Dr. Andres Bustamante Project Coordinator: Bilingual executive function & child development researcher, Laura Hernandez











Measurements for all the constructs of interest to look for change in classrooms informed by...









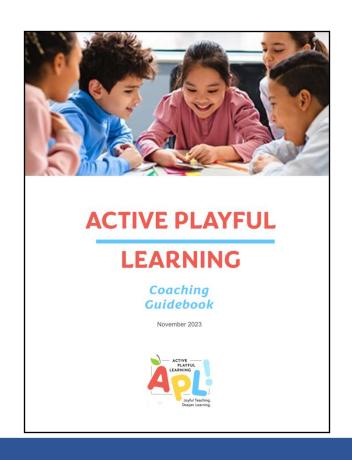
Observers Coaches Teachers

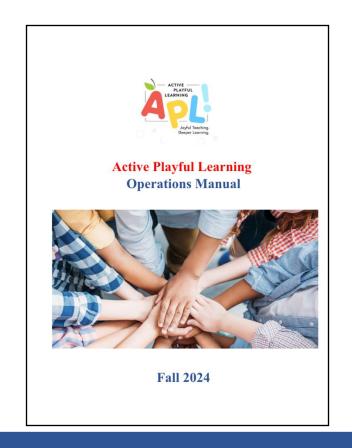
The Teacher Name:	Teacher ID:		A LEARNING Joylal Teaching, Deeper Learning.
School ID:	Classroom ID:		
Coach Name:	Coach ID:	Date:	
every two months (4 two-we meeting the planned S.M.A. goals should be revisited ar		nd coach will reflect cussion around these	on their progress toward e goals is ongoing, and
every two months (4 two-we meeting the planned S.M.A. goals should be revisited ar	eek coaching cycles), the teacher a R.T. goal. It is understood that disc ad revised as necessary.	nd coach will reflect	on their progress toward e goals is ongoing, and
every two months (4 two-we meeting the planned S.M.A. goals should be revisited ar	ek coaching cycles), the Teacher a R.T. goal. It is understood that disc id revised as necessary. Coach:	nd coach will reflect cussion around these	on their progress toward e goals is ongoing, and
every two months (4 two-we meeting the planned S.M.A. goals should be revisited ar Teacher:	nek coaching cycles), the Teacher a R.T. goal. It is understood that disc id revised as necessary. Coach: S.M.A.R.T Goal Met?	nd coach will reflect cussion around these	on their progress toward e goals is ongoing, and
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	Initial Classroom Visit Form	ACTOR PLAFFS LEARNING Sofil bashing Greyor Learning	
 Focus on identifying streng Focus on the practices targ 	it(s) is to get to know the classroom, teacher(s), and this to build on through coaching. geted by APL and that might be supported through co as to support noted comments, including the language	oaching.	
Teacher Name:		Classroom	
ID: School ID:			
Date:			
		APL Teacher Practices	
What's Working		Small & paired groupings	
		 Supports 	
		children	
		together.	
		Reinforces prosocial	
		behaviors.	
		Student contribution	
		Facilitates	
		multi-turn conversations.	
		Responsive to	

And Manuals for coaching and for study administration

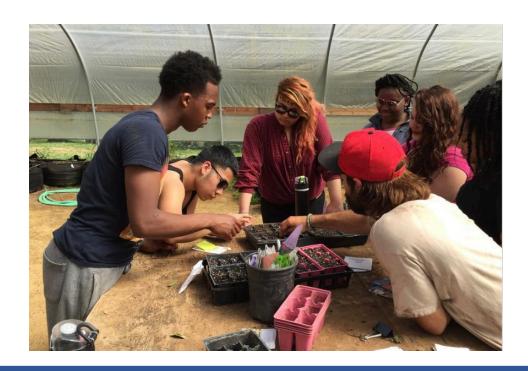








And, importantly, Active Playful Learning is not just for little kids

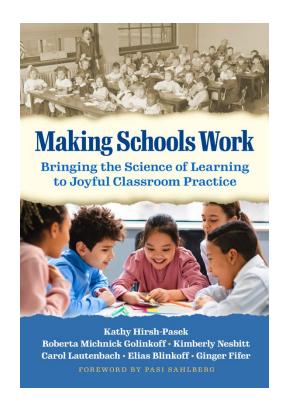


Blinkoff et al., (in preparation) show how it can even be used to teach in college classrooms!



To learn more about APL in schools...



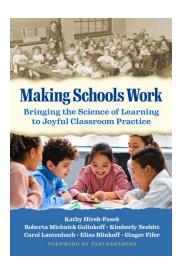




https://forms.office.com/r/ni6pRkkvZH

And we are applying the same model to shape communities, schools, and digital media











All are backed by a strong research base.....



Game: Comparing Caregivers' and Children's Question-Asking across STEM Museum Exhibits

Caroline Gaudreau¹⁰, Andres S. Bustamante³, Kathy Hirsh-Pasek^{3,4}, and Roberta Michnick Golinkoff

Everyday Context

Apporva Shivaram**, Yaritza Chavez*, Erin Anderson*, Autumn Fritz*, Ryleigh Jackson*, Louisa Edwards², Sholley Powers¹, Melissa Libertus² and Susan Hespos¹

* Decembrant of Prochology Northweston University Executor, B., United States, * Decembrant of Accessed Statistics. University of Virginia, Charlottee/No. VM. United States, "Department of Psychology, Learning Research and Development orter, University of Altisburgh, Altisburgh, Alf, United States

65N: 1524-8372 (Print) 1532-7647 (Online) journal homepage: https://www.taroflonline.com/foi/hjcd/20 Urban Thinkscape: Infusing Public Spaces with

STEM Conversation and Interaction Opportunities

Brenna Hassinger-Das, Itai Palti, Roberta Michnick Golinkoff & Kathy Hirsh-

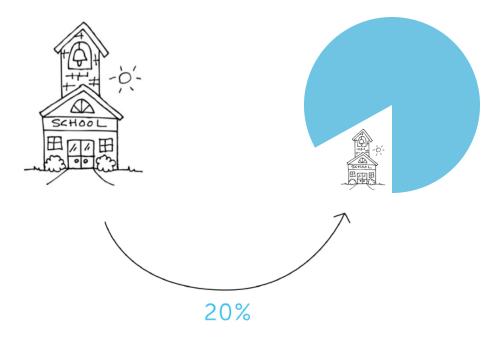
To cite this article: Brenna Hassinger-Das, Ital Patti, Roberta Michrick Golinkoff & Kathy Hirsh-Pasek (2020) Urban Thinkscape: Infusing Public Spaces with STEM Conversat and Interaction Opportunities, Journal of Cognition and Development, 21:1, 125-147, DOI: 10 1080/15248372 2019 1673753

To link to this article: https://doi.org/10.1080/15248372.2019.1673753



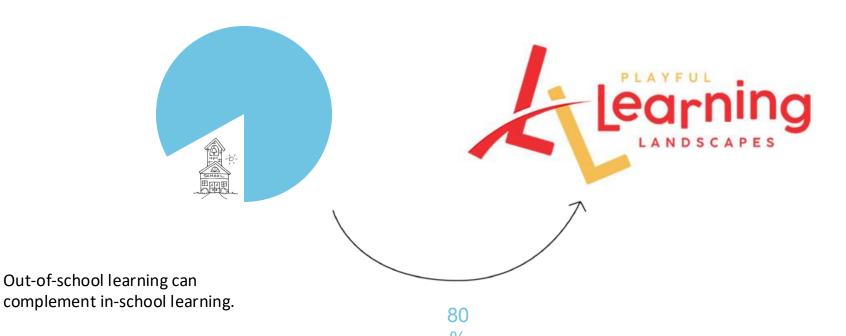
Did you know that.....

Children spend only **20%** of their waking time in school.





What are we doing with the other 80%.....



Example 1: Urban Thinkscape



- Transforming a bus stop into a playful learning space
- Over 100 community members participated in building the site
- Community members trained as "data ambassadors" to collect observational data on use and learning from the site
- Results (N=280) 28% increase in adult/child language and in targeted spatial or number language use
 Hassinger-Das et al.









Hassinger-Das et al., in press







How the bus stop changes in Santa Ana





Example 2: Parkopolis



 The Human Sized Board Game designed to foster early mathematical skills and scientific reasoning. Pilot conducted in Switzerland in the summer of 2017 resulting in more math talk!

RESULTS (N= 111)

- Parent-child interaction compared to control
- Adult and child language use and question use
- Targeted spatial/numeric language and fraction language





Andres Bustemante

Bustemante et al., 2020



Thanks to Fei Xu, Silvia Bunge and all of our mathematic colleagues!



Example 3: Playbrary

 Can we even change a library to enhance playful learning and conversation? You bet.

RESULTS:

- Number of children using number, spatial, color, or letter language increased by 44% from pre to posttest.
- Adults and children' technology use decreased by 38% from pre to posttest.





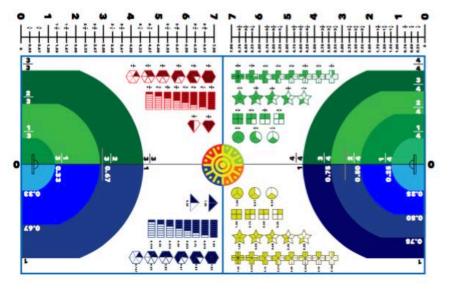




Hassinger-Das et al., 2021



Example 4: Fractionball





Results? N=160, 4-6th graders; Increase in decimal to fraction conversions with just 4 PE sessions!

Bustemante et al., 2022



Example 5: Supermarkets

In Tulsa, OK



In South Africa





Case Study: Santa Ana, CA









You see, if we incorporate the science of learning into educational practice, we can create more equitable systems with deeper learning. Playful learning – joy– is not frivolity. It is central to how we education and how we teach whatever curricula we are teaching in and out of school!





Thanks to

The most wonderful postdocs, graduate students and undergrads.

And to the families who make the research we do possible!



Roberta Golinkoff, Ph.D.















For more, visit us at Activeplayfullearning.com and Playfullearninglandscapes.com hear our APA podcast: https://www.apa.org/news/podcasts/speaking-of-psychology





Upcoming GLR Learning Tuesdays Webinars:

GLR LEARNING TUESDAYS PARTNER WEBINAR

Building Stronger Teacher Pipelines Through University-District Partnerships Tuesday, October 22, 3–4:30 p.m. ET/12–1:30 p.m. PT

GLR LEARNING TUESDAYS LEARNING LOSS RECOVERY CHALLENGE

An "Honesty Gap"? Shifting State Standards & Accountability for Learning Loss Recovery Tuesday, October 29, 3–4:30 p.m. ET/12–1:30 p.m. PT

SPECIAL ELECTION DAY REBROADCAST

The ESSER Funding Cliff Approaches: What States Did & What They Learned Tuesday November 5, 3-4:30 p.m. ET/12-1:30 p.m. PT

CRUCIBLE OF PRACTICE SALON

Words in Every Neighborhood: Citywide Efforts to Expand Literacy-Rich Environments Tuesday November 12, 12:30-2:00 p.m. ET/9:30-11 a.m. PT

Join us!



