



100 Years of Learning Through Play

David Weller



Learning Through Play

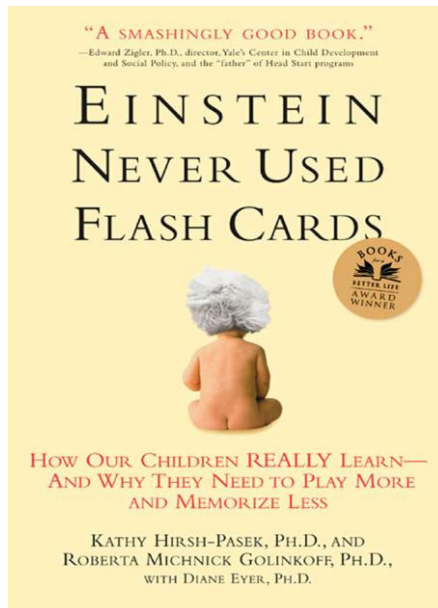
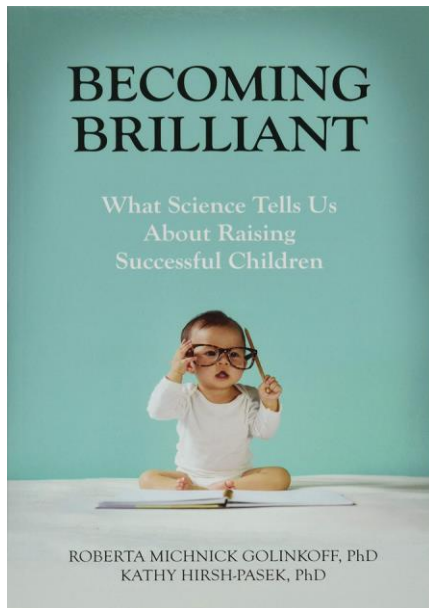
Principles

History

Today

EdTech

Learning Through Play



Learning Through Play



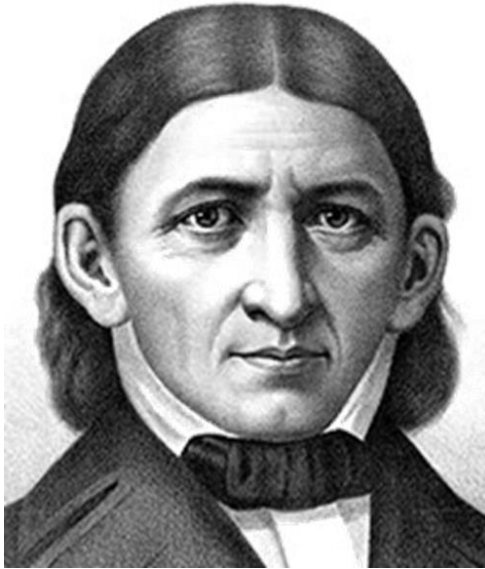
Principles

1. Enjoyable
2. No extrinsic goals
3. Spontaneous and voluntary
4. Active engagement
5. Element of make believe
6. Meaningful
7. Iterative

History



Learning Through Play



Friedrich Fröbel

- early 1800's
- games, songs
- hands-on materials
- learning through experience
- child-centered learning

Learning Through Play



Maria Montessori

- early 1900's
- psychological development
- education of the senses & intellect
- self-reflection
- hands-on materials
- experiential learning
- intrinsic motivation
- child-centred learning

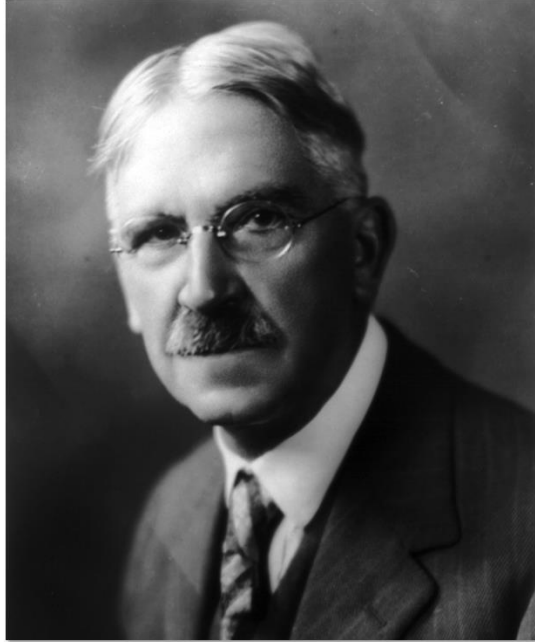
Learning Through Play



Lev Vygotsky

- early 1900's
- what children can do alone
- what children can do with non-intrusive aid

Learning Through Play



John Dewey

- early 1900's
- social education
- constructive play
- make-believe play
- hands-on materials
- experiential learning

Learning Through Play

Chen Heqin

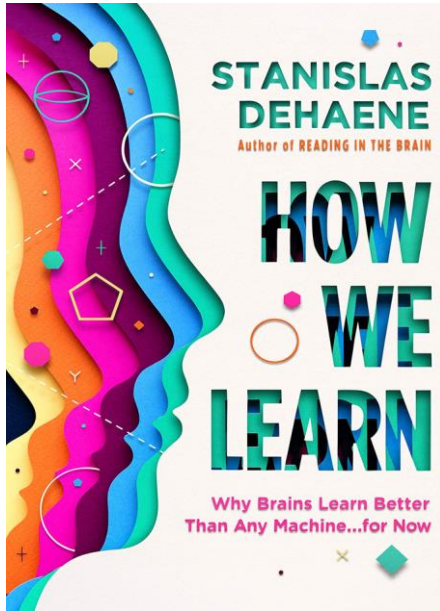


- middle 1900s
- child psychology & family
- authentic materials
- natural environment & social environment
- experiential learning

Today



Science of Learning



Attention

Active

Feedback

Consolidation

Attention

1. Filter
2. Select information
3. Selective ignorance
4. Processing

Active Engagement

1. Action
2. Self-engagement
3. Testing
4. 'Good' difficulty



Feedback

1. Prediction
2. Immediate feedback
3. Testing
4. Stress-free

A large orange circle is positioned on the left side of the slide. Inside the circle, the word "Consolidation" is written in white, bold, sans-serif font.

Consolidation

1. Repetition
2. Automation
3. Sleep

EdTech





Attention


Unit 16 Lesson 3
Colourful Animals





Vocabulary
horse, duck, sheep, goat...

 **Colourful Animals**
Sing and read a silly farm song.


 **I Love Cows**
Learn a farm animal dialogue.

 **Quiz**


 


Active
Engagement


Unit 8 Lesson 4
Big T Small t





Letters Flashcards
t, d, b, p, u, o, i

 **Big T Small t**
Learn big and small letter T.

 **Fruit Smash**
Review five fruits.

 **Five Fruits**

Feedback

The screenshot shows a tablet interface for a lesson. At the top left, the title 'Unit 4 Lesson 1' is displayed in bold black text, with the subtitle 'Birds and Mice' below it. To the right of the title is a circular icon containing a blue bird and a brown mouse. The background of the tablet screen features a cartoon yellow cat with large eyes and blue boots, standing on a tree branch in a desert-like landscape with brown hills and a blue sky. On the right side of the screen, there are four white rectangular boxes with orange borders, each containing an icon and text. The first box has an icon of a red apple and a card with the letter 'A', and the text 'Vocabulary' followed by 'cat, dog, rabbit, mouse...'. The second box has an icon of a dog and a cat, and the text 'Birds and Mice' followed by 'Introduce more plurals.'. The third box has an icon of a cat and two gold coins, and the text 'Pop Up Pets' followed by 'Practice five animals.'. The fourth box has an icon of a purple and white striped object, and the text 'Long and Short I'. At the bottom left of the tablet screen, there are two white square buttons: one with a black left-pointing arrow and one with a red book icon.

Unit 4 Lesson 1
Birds and Mice

Vocabulary
cat, dog, rabbit, mouse...

Birds and Mice
Introduce more plurals.

Pop Up Pets
Practice five animals.

Long and Short I

All Students



Student	Last Seen	Playtime	Score	Status
Jose	Mon 18 May	an hour	93%	Ready
Emilia	Tue 05 May	2 hours	89%	Ready
Liza	Fri 17 Apr	an hour	85%	Ready
Pasquale	Tue 12 May	an hour	84%	Ready
Isabella	Sat 16 May	an hour	84%	Ready



Learning
Insights

Engagement



Homework

Assigned activities completed

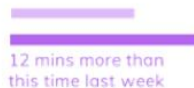


17 of 22

Reassign homework

Learning time

Total time spent on assigned and unassigned activities



Extra effort



Preview

Activities played from future units



15



Review

Activities played from previous units



9

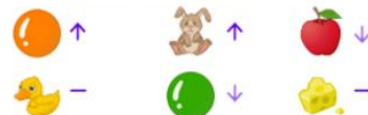


Progress



Stronger words

Explanation of a strong word.



Weaker words

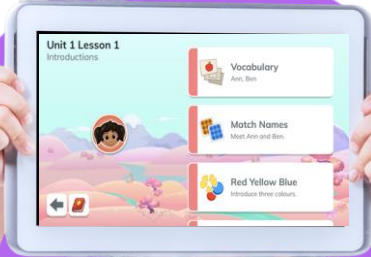
Explanation of a weak word.



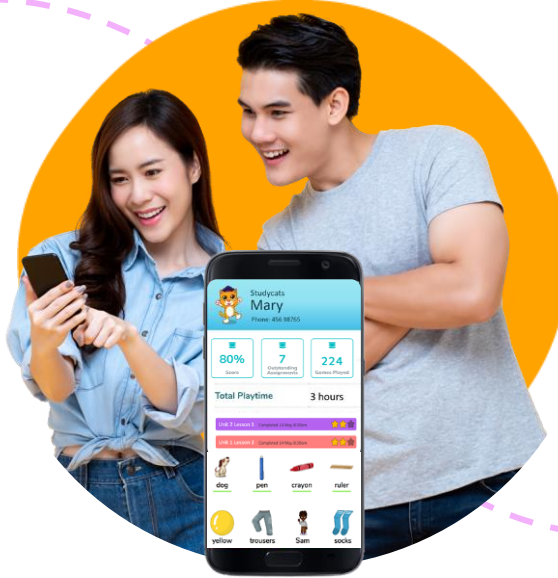


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Connected Learning



Students



Parents



Teachers

Parent Experience








Parents see real time learning data!



studycat for schools Gavin Log out

Learned Recently

  
monkey lion bear

 
pig tiger

Assignments

Unit 4 Lesson 6 Assigned

 **Word Wall**
Learn "a, the, and, of"

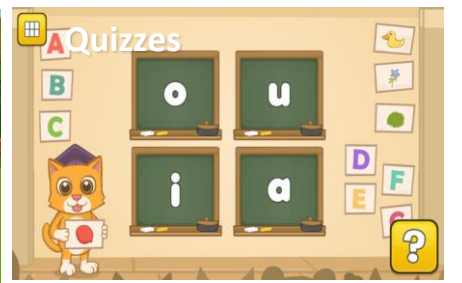
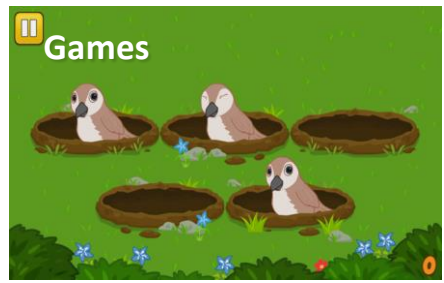
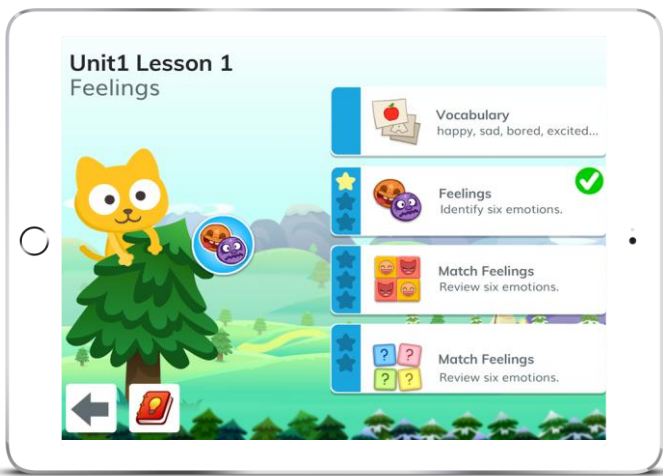
 **Spell Animals**
Spell five wild animals.

 **Forest Animals**
Identify ten animals.

 **Sight Words Quiz**
a, the, and, of



Student Experience



International English Curriculum



96% aligned to
Cambridge Starters
...with 130 extra
words

Exposure ✓

Frequency ✓

Recycling ✓

Motivation ✓

A Complete Learning Experience

Digital Classroom



Student App/Dashboard



Print Materials



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