

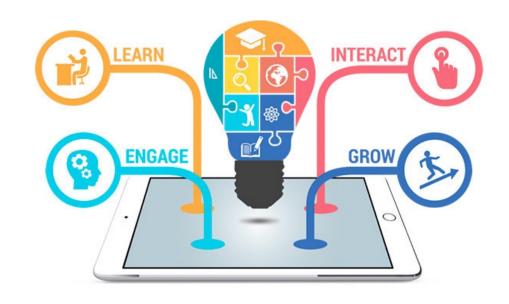
App-Based Education and the Principles of Learning

by Jake Whiddon



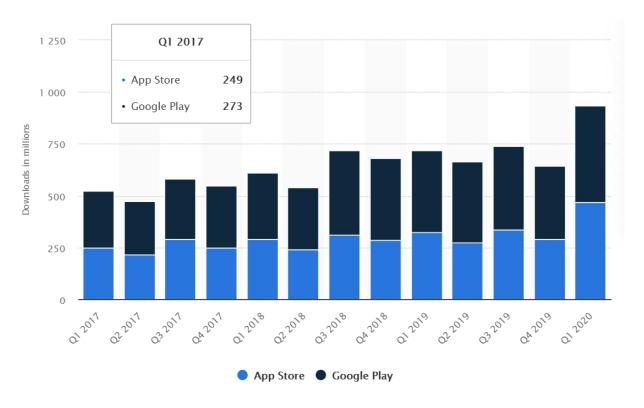


80,000+ educational apps in the stores!





Worldwide mobile education app downloads from 2017 to 2020





U.S. Education App Downloads





Top Education Apps in the U.S. for 2018 by Downloads

- 1 Remind
- 2 🔀 Photomath
- 3 Duolingo
- 4 Google Classroom
- 5 🥏 ClassDojo
- 6 Ki Kahoot!
- 7 Q Quizlet
- 9 | Peak
- 10 💮 Canvas Student

- Coding
- Math
- Language Learning
- Class Management
- Quizzes





What should schools and teachers look for in educational apps?





Let's look at some research!

Criteria



Opportunities for **input** and **output**

Minds On (Active) Learning

in the learning (Motivation)

Meaningful Learning Social Interaction Scaffolding of Learning Targets



Research on 4 leading language learning apps



Key findings!

Overuse of passive activities
Limited social interaction
Limited use of data

Lacking context at times

Highly motivating

Scaffolding

Personal learning journeys

Link homes and schools

Learning insights

Micro-assessments



Minds On - Active Learning

Assessment Activity

Interactive assessed activities providing feedback on learning

Experience Activity

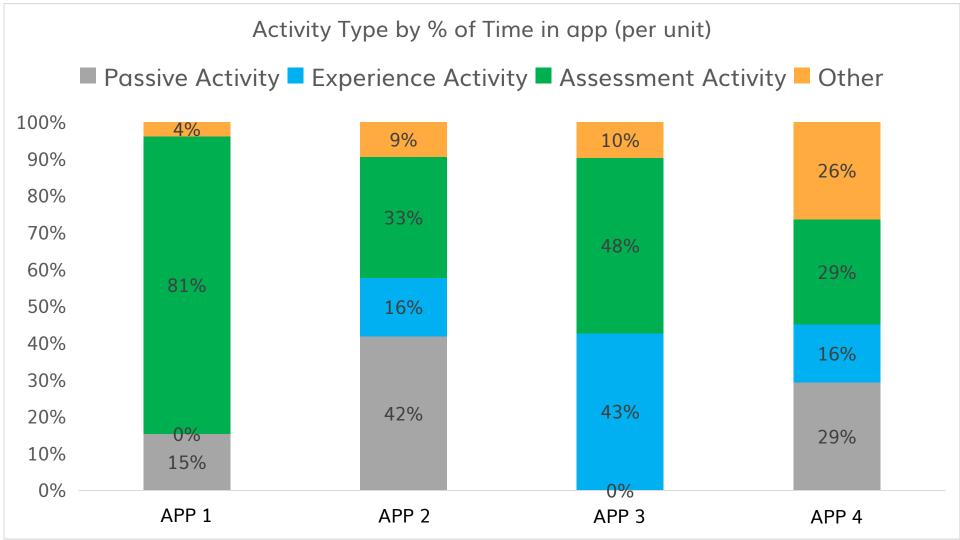
Context setting, interaction, input, not assessed

Passive Activity

Videos with no interaction

Other

Menu, loading time, waiting time





Assessment does not equal boring tests!

Student Experience

studycat Classin

Every interaction is an opportunity to assess learning.













Why do we want a lot of assessment activities?



Learning data

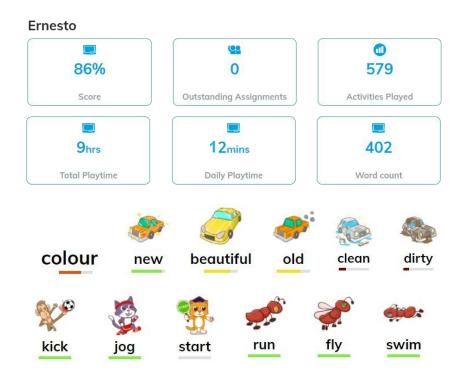
but more importantly...

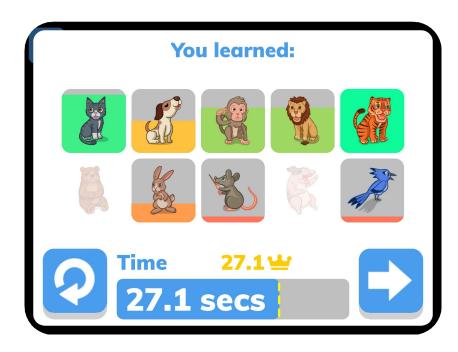


Learning Insights!

Parents and students









Quality insights into learning



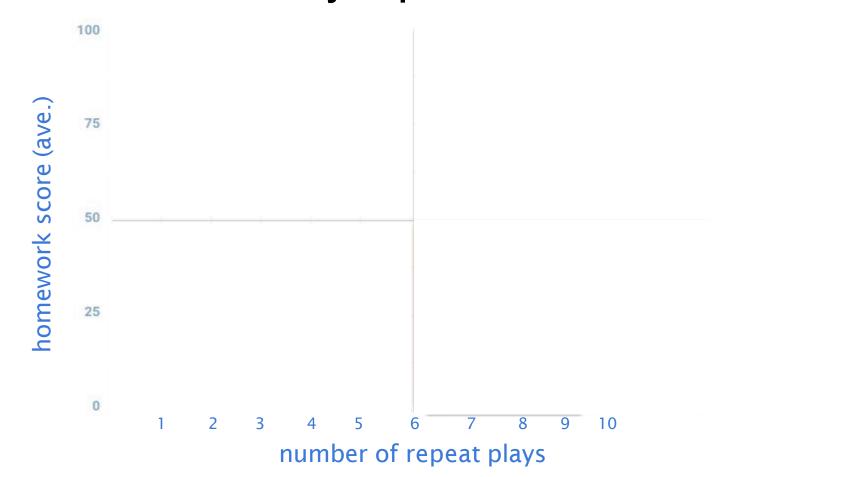


Not just what the student did

but **how** they did it and **how well** they performed!

Which students need my help?







Jake's top tips for choosing apps

- Ensure limited passive content
- Must encourage active learning
- Links between home and school
- Provide learning insights
- Presents learning in context



