Students Already use Mobile Devices in Education

The Genie is out of the bottle so lets maximize its strengths

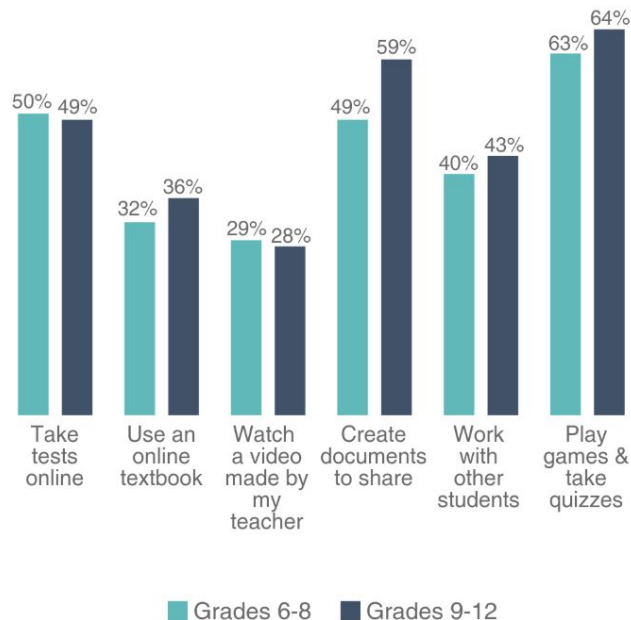# U.S. FAMILIES ALREADY USE MOBILE IN EDUCATION

Perla Castro of Donna Texas relies on school bus rides for Internet access. The school district has put WiFi on busses to help students who do not have access at home
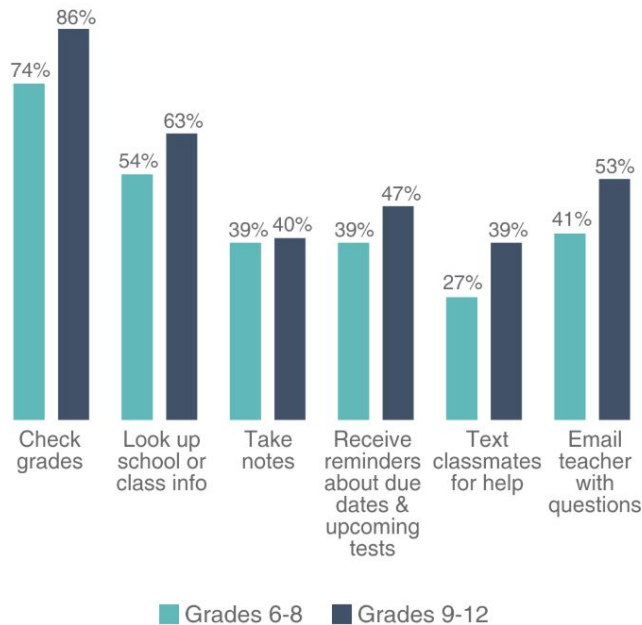
Bridging a Digital Divide That Leaves Schoolchildren Behind - NYT

U.S. FAMILIES ALREADY USE MOBILE IN EDUCATION

How do 6th-12th graders use mobile devices for learning at school?
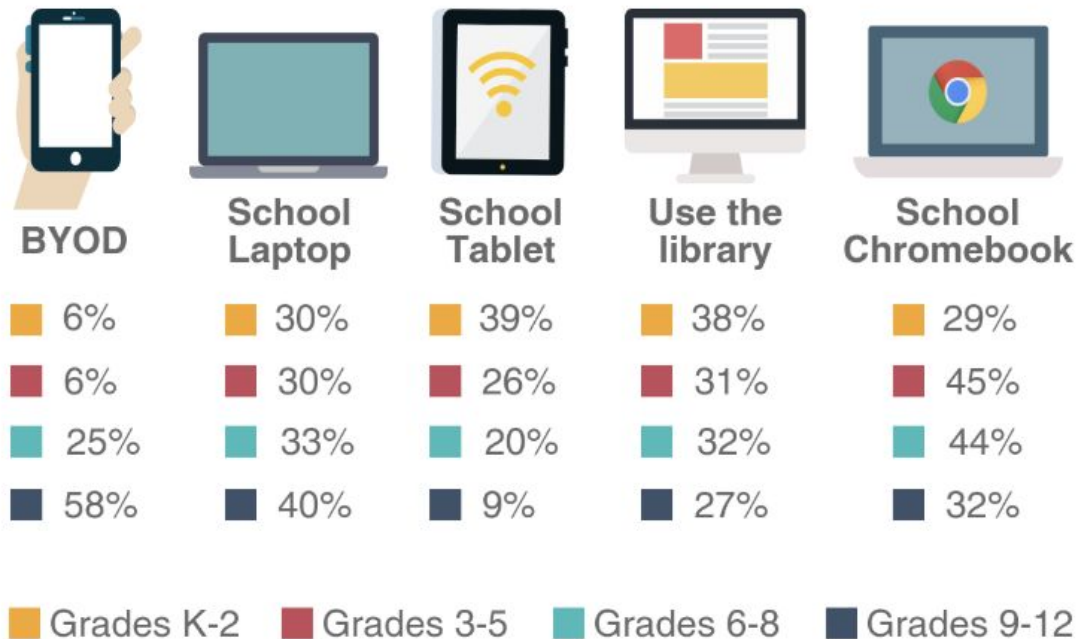
Teacher sponsored activities

Activity	Grades 6-8	Grades 9-12
Take tests online	50%	49%
Use an online textbook	32%	36%
Watch a video made by my teacher	29%	28%
Create documents to share	49%	59%
Work with other students	40%	43%
Play games & take quizzes	63%	64%

Student self-initiated activities

Activity	Grades 6-8	Grades 9-12
Check grades	74%	86%
Look up school or class info	54%	63%
Take notes	39%	40%
Receive reminders about due dates & upcoming tests	39%	47%
Text classmates for help	27%	39%
Email teacher with questions	41%	53%

■ Grades 6-8   ■ Grades 9-12

435,510 K-12 grade students surveyed by ProjectTomorrow Speakup

U.S. FAMILIES ALREADY USE MOBILE IN EDUCATION

K-12th grade students' access to mobile devices in the classroom

	BYOD	School Laptop	School Tablet	Use the library	School Chromebook
Grades K-2	6%	30%	39%	38%	29%
Grades 3-5	6%	30%	26%	31%	45%
Grades 6-8	25%	33%	20%	32%	44%
Grades 9-12	58%	40%	9%	27%	32%

Grades K-2 Grades 3-5 Grades 6-8 Grades 9-12

435,510 K-12 grade students surveyed by ProjectTomorrow Speakup

K12 FAMILIES USE MOBILE TO ACCESS OUR SERVICE

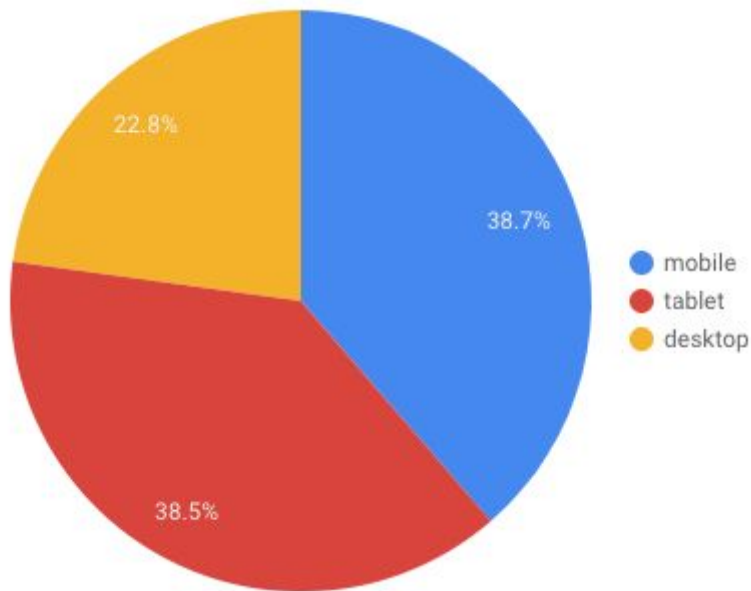Yes...students & LCs are trying to use our OLS via their phone.

What are the implications?

K12 FAMILIES USE MOBILE TO ACCESS OUR SERVICE

Our students start their OLS experience on a tablet or phone and then move to a desktop

Most new users on mobile or tablet.

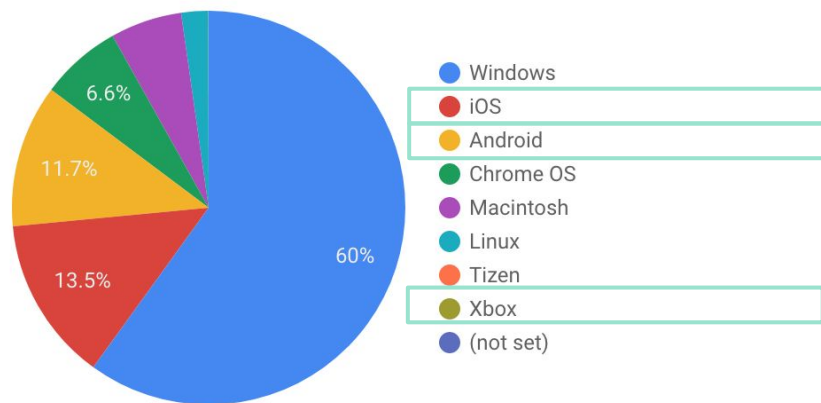All users (ST & LC only) Device Category

- mobile 38.7%
- tablet 38.5%
- desktop 22.8%

- desktop 76.5%
- mobile 20%
- tablet
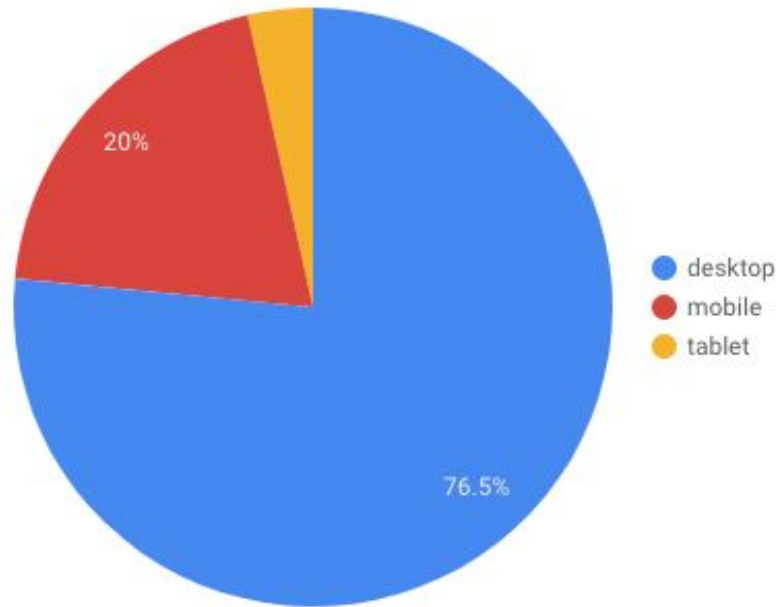
Dates: July 1 - Oct 29 2018

K12 FAMILIES USE MOBILE TO ACCESS OUR SERVICE

October 18-29th, 2018

Operating System

	Operating System	Operating System Version	Users ▼	% Δ
1.	Windows	10	8,754	-96.5% ⬇
2.	Windows	7	4,606	-98.3% ⬇
3.	Chrome OS	x86_64	1,430	-89.5% ⬇
4.	iOS	12.0.1	1,375	-
5.	Android	8.0.0	785	141.5% ⬆
6.	iOS	12.0	717	-
7.	Macintosh	Intel 10.13	650	-85.3% ⬇
8.	Android	7.0	590	-97.1% ⬇
9.	Windows	8.1	580	-98.1% ⬇
10.	Linux	x86_64	511	-98.4% ⬇

1 - 10 / 96 ‹ ›

K12 FAMILIES USE MOBILE TO ACCESS OUR SERVICE

October 18-Nov 17, 2018

	Screen Resolution	Users ▼
1.	1366x768	146,590
2.	1920x1080	38,144
3.	1600x900	18,879
4.	360x640	14,847
5.	1536x864	14,002
6.	1440x900	13,471
7.	375x667	10,816
8.	414x736	10,381
9.	1280x720	9,295
10.	1280x800	8,739
11.	1525x858	8,522

K12 FAMILIES USE MOBILE TO ACCESS OUR SERVICE

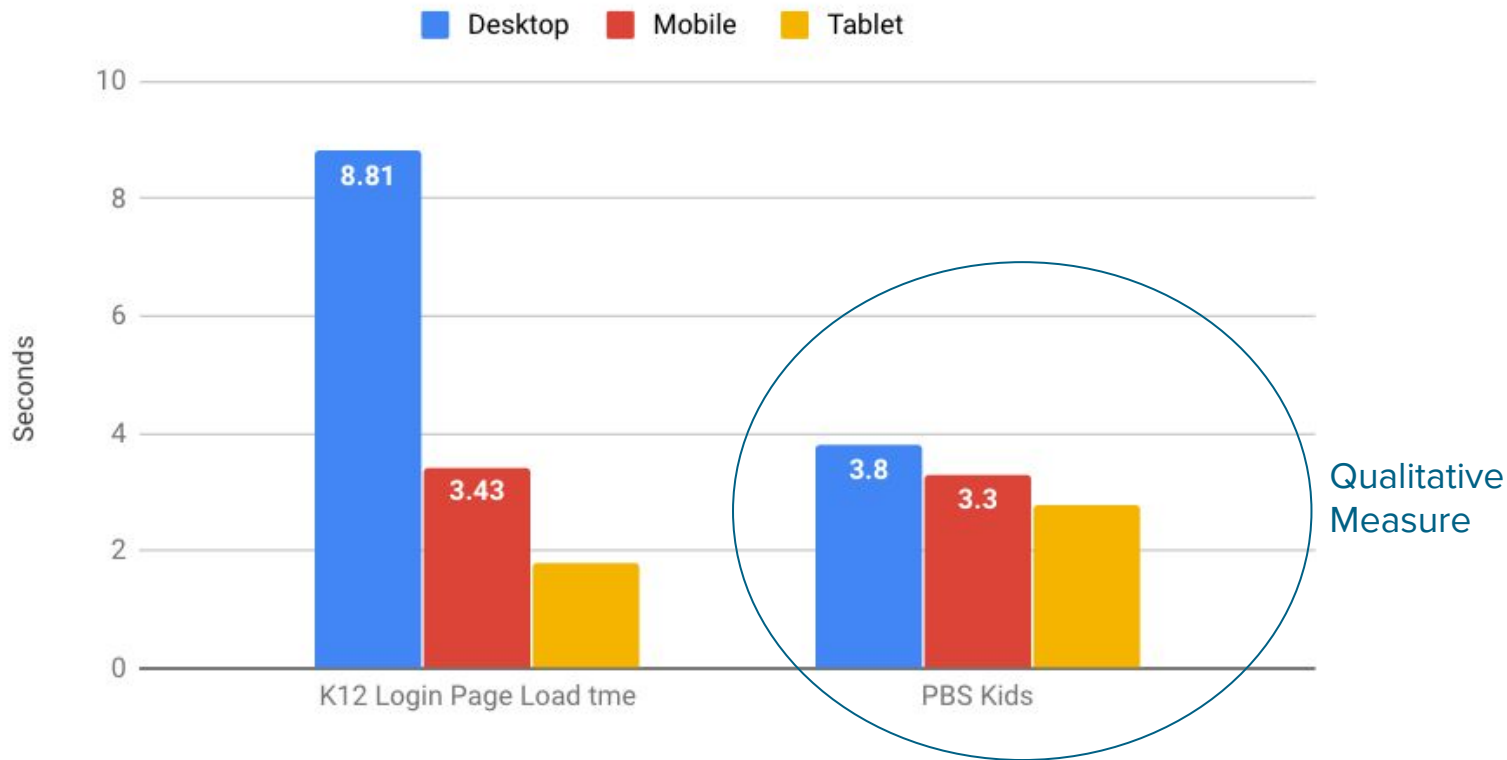Avg Page Load Times on the K12 Login page by device

Dates: July 1 - Oct 29 2018

Page load time is relative to other experiences on the Web

HOW WE COMPARE A HINT THAT WE'RE IN THE BALLPARK FOR MOBILE

K12 Login Page Load tme and PBS Kids

Legend: Desktop | Mobile | Tablet

Y-axis: Seconds (0 to 10)

K12 Login Page Load tme: Desktop 8.81, Mobile 3.43, Tablet ~1.8
PBS Kids: Desktop 3.8, Mobile 3.3, Tablet ~2.7

Qualitative Measure

K12 FAMILIES USE MOBILE TO ACCESS OUR SERVICE

K12 Page Load Time & Mobile/Tablet Usage by Region

| Urban States	Mobile+Tablet Usage	Avg. Page Load Time (s)	Rural States	Mobile+Tablet Usage	Avg. Page Load Time (s)
Washington	13.50%	4.01	South Dakota	9.00%	2.05
California	15.50%	4.71	Montana	11.10%	3.90
New York	19.40%	28.5	Mississippi	10.90%	12.9
DC	35.80%	4.60	Kansas	8.80%	5.41
Florida	16.50%	3.53	Idaho	10.50%	2.08

- Mobile usage is higher in urban states
- Not a significant trend between load time and mobile usage

K12 FAMILIES NEED TO LEARN IN MANY DIFFERENT CONTEXTS

Mobile means students use the OLS in a variety of environments
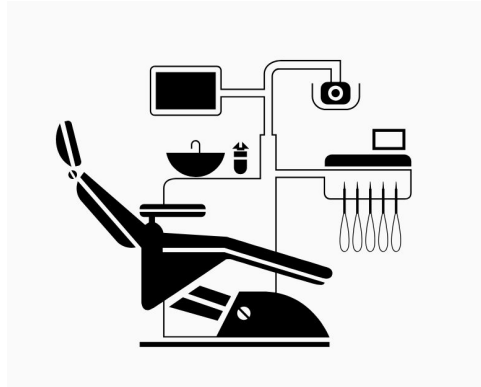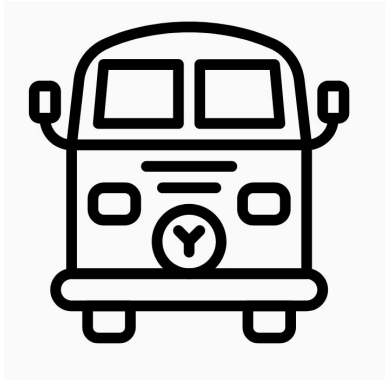
ALL STUDENTS MUST COPE WITH OVERWHELMING STIMULI

K12 FAMILIES **NEED TO LEARN** IN MANY DIFFERENT CONTEXTS

Observations from Automated Proctoring Pilot Study

K12 FAMILIES USE MOBILE TO ACCESS OUR SERVICE

Teach Students & LCs best Mobile Practices via our Introduction to Online Learning Courses

WE CAN MAXIMIZE MOBILE COMPUTING'S STRENGTHS

Recognize the Student's Context

Sensory input to evaluate contexts

WE'RE TOO FAMILIAR WITH THE INEVITABLE CHANGE IN PLATFORMS & TECH