intel®
Education

Too Many Devices **+**
The Wrong Software
=
Compromised Math and Science Learning

How Content Decay Hampers 21st Century Education

Precision is paramount in Math and Science. If the data in a student's spreadsheet or presentation isn't displayed correctly, it can destroy the integrity of the entire assignment.

This very effect can happen when students share work created on their devices with teachers and classmates using different mobile or desktop devices. Calculation errors, graphical mis-representations, the loss of valuable data and analysis, and other functionality can reveal themselves only when files are opened on different platforms.

A student's grade shouldn't be penalized because his or her work displays incorrectly on someone else's device. Yet, many educators are unaware of how incompatibilities across devices can often result in the decay of content.

This sheet contains objects such as charts and images which are not yet supported on this device.
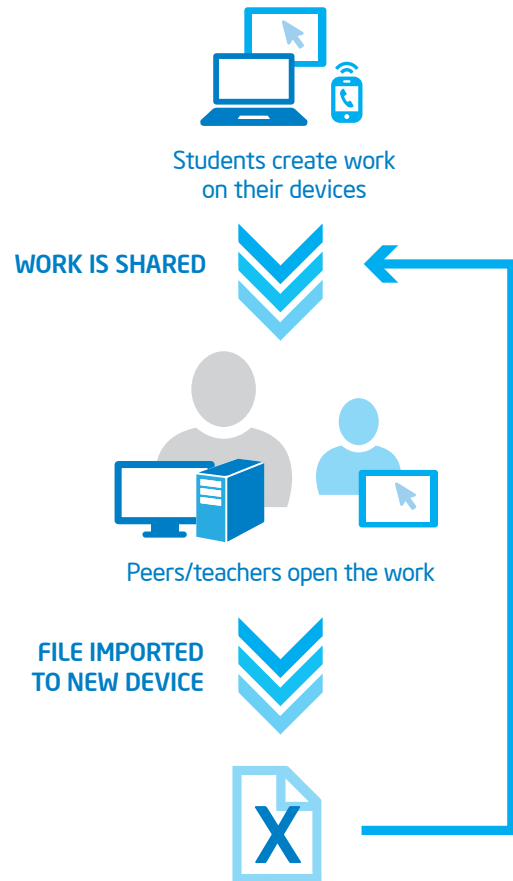
OK

Does Your Student Workflow Really Work?

Applications that run on various operating systems—Windows*, iOS*, Android*, and even cloud-based solutions, such as Google Drive*—vary in one or more ways. Even web and app versions of the same software can differ, such as Drive using a desktop Web browser versus the mobile app on Android. And Microsoft Office*, a standard in many schools but vastly unavailable to students, means kids have to seek other solutions, potentially varying widely from Office. These differences can result in unwanted changes in the student's work, which then propagate as changes are made iteratively.

Before your school or district executes an education technology initiative, ask yourself the following to avoid the perils of content decay:

1.	What existing applications will your district keep using? Are they available for the tablet OS? Does performance and functionality diminish on tablets?
2.	Has your district made significant investments in curriculum content based on Flash*, which may not be usable on some tablets? Even if Flash is not an issue, is the content compatible with a tablet's touch-based interface?
3.	Does your district have a plan for Common Core State Standards and other online assessments? Even if your state is not adopting the Common Core State Standards, most other summative assessment systems are moving towards online assessments.
4.	Does your district have an existing investment in desktop and laptop computers? How will it be impacted?

As schools deploy more devices to support achievement on more rigorous standards, students and educators cannot afford for learning to suffer because their documents appear incorrectly. In terms of math and science curriculum, one mistake is all it takes to get the whole thing wrong, creating an ed-tech equation that simply doesn't add up.

Students create work on their devices

WORK IS SHARED

Peers/teachers open the work

FILE IMPORTED TO NEW DEVICE

Potential issues resulting from incompatibility and saved to file

- Loss of chart data
- Unsupported chart formats
- Inability to import a document
- Unsupported layouts
- Missing content
- Altered fonts
- Unplayable audio
- Unplayable video
- Loss of animations
- Inability to view comments
- Distorted images or layouts

- Faulty text wraps
- Missing footnotes
- Macros won't run
- Missing footers
- Loss of text formatting
- Unusable hyperlinks
- Missing speaker's notes
- Basic cell miscalculations
- Colors in charts shifted, altering critical meaning
- Unsupported formulas removed or changed

Find out more about how to increase a student's content fidelity by visiting

www.k12blueprint.com/cb/ms

(intel) Education