

STUDENT DEVICES on the K-12 Network

Shifting to a student-centered education model requires that schools allow mobile devices for personalized learning. This also introduces new demands related to networking, security, technical support and more. To understand the new challenges, THE Journal surveyed K-12 educators and staff members on their practices related to device usage and security in their schools and districts. Here's what they report.

STUDENT DEVICE PROGRAMS

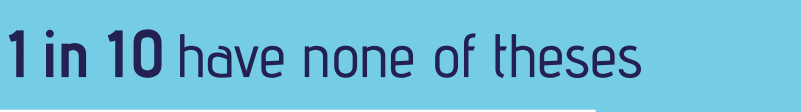
8 in 10 have mobile device carts



5 in 10 have 1-to-1



4 in 10 have BYOD



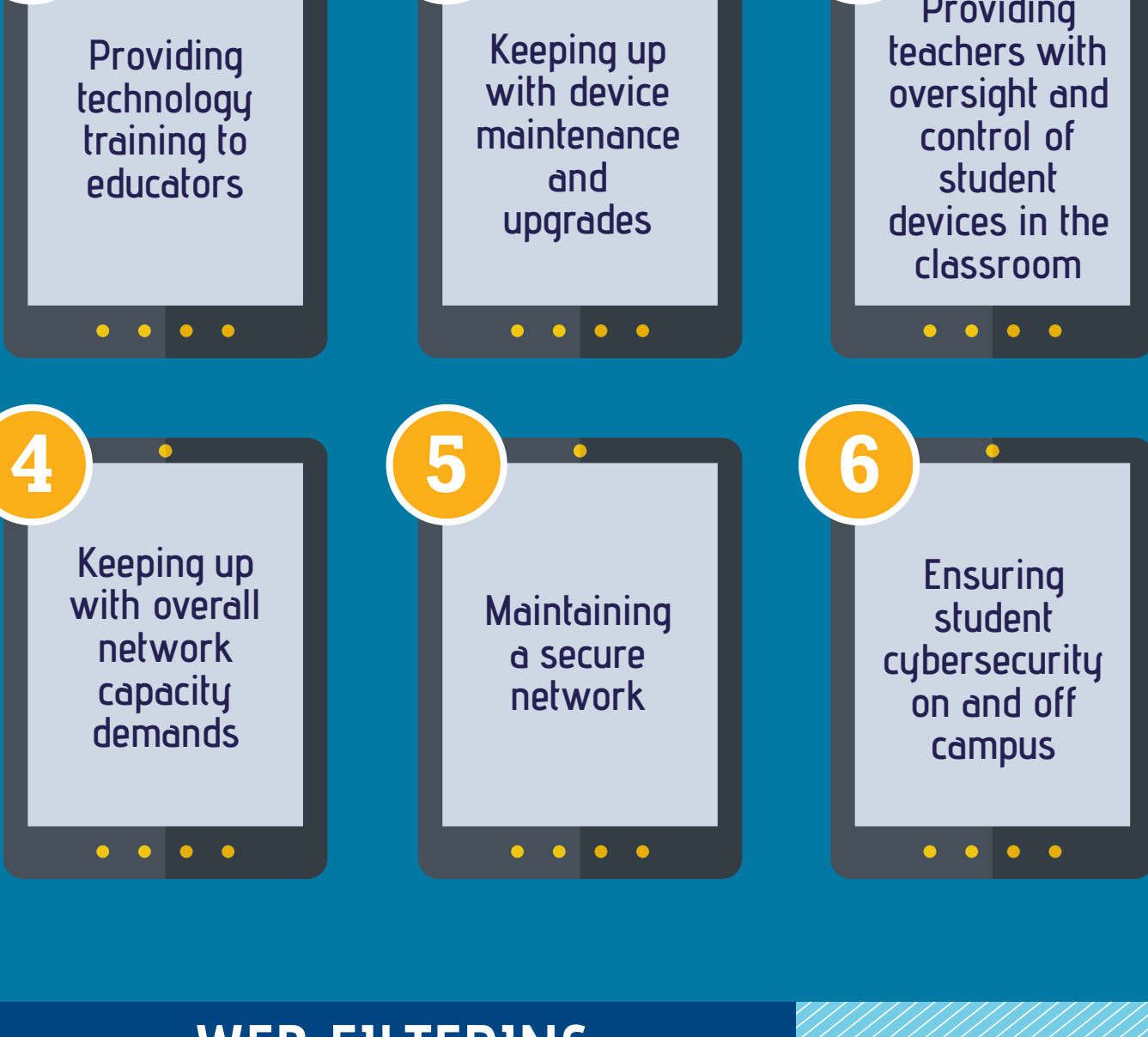
1 in 10 have none of these



MOBILE CARTS
STILL
DOMINATE IN
SCHOOLS

CHALLENGES OF MAKING THE TRANSITION TO DIGITAL LEARNING

TOP SIX CHALLENGES



WEB FILTERING

6 in 10 schools filter school-provided devices outside of school



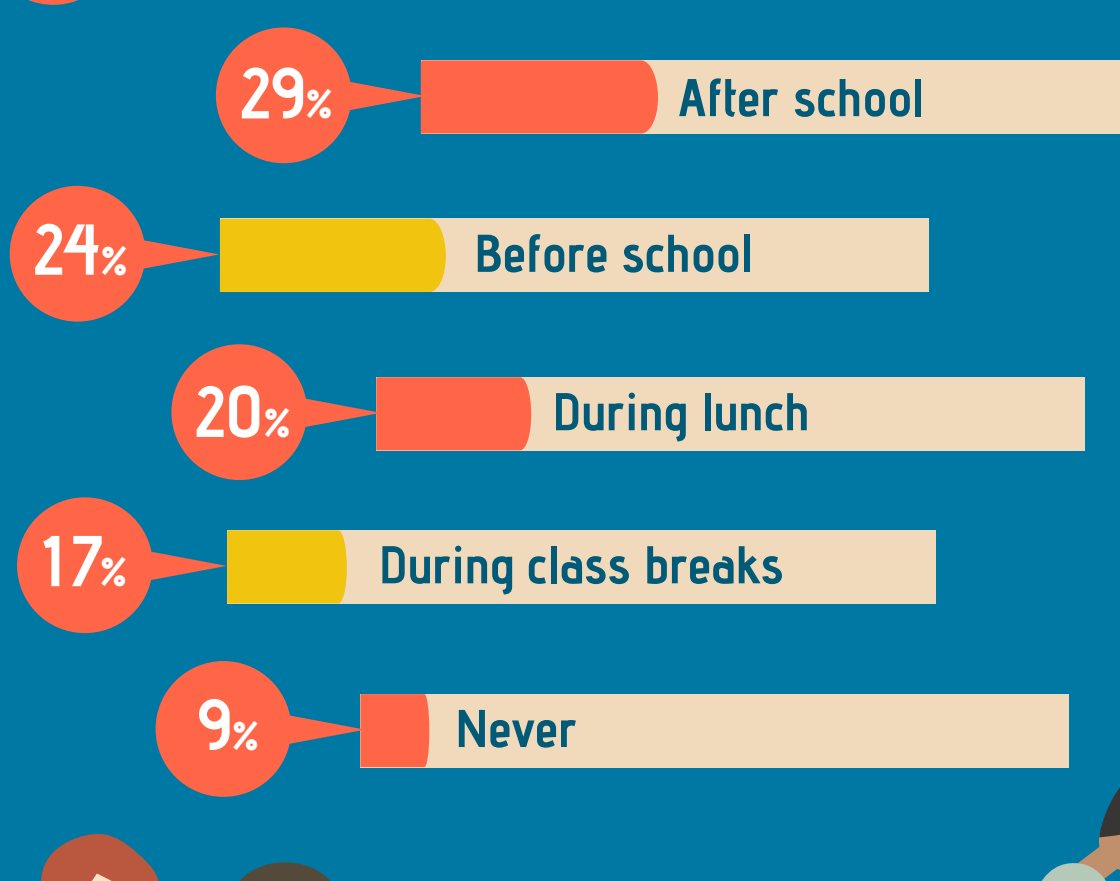
3 in 10 do not (The rest of the respondents do not know.)



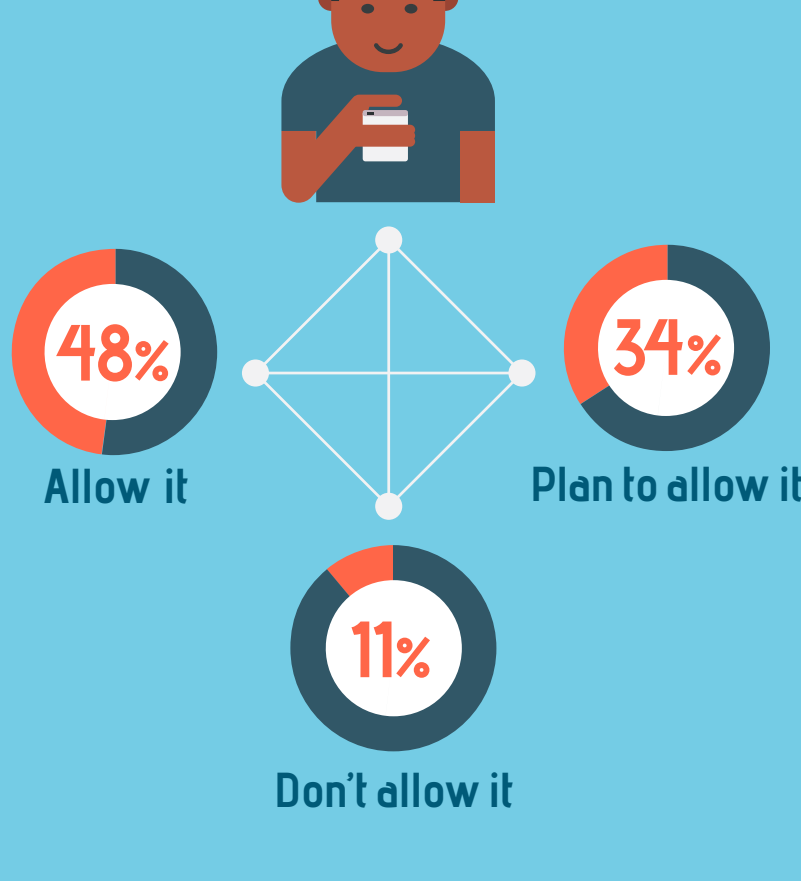
Half (50%) of off-campus web filtering is handled through a VPN automatically tunneling back into the school network. One third (30%) of web filtering is handled by installing a mobile app or client on the devices. One fifth (20%) of web filtering is done through other means (anti-virus client, firewall add-on, mechanism put in place by state-run networks or through a network app running on a data center server).

STUDENT NETWORK ACCESS

WHEN STUDENTS ON CAMPUS CAN ACCESS THE INTERNET OUTSIDE OF CLASS



STUDENT ACCESS TO CAMPUS NETWORK OR WIRELESS SERVICES FOR PERSONAL DEVICES



SELF-SERVICE FOR ON-BOARDING

This is uncommon. Only a third of schools or districts (35%) have this in place. Among those that provide self-service, all provide it to teachers. Most (nearly 9 in 10) provide it to other staff and students.

DATA BREACHES

Remarkably, barely 1 in 10 schools or districts (14%) has discovered a data breach in the last year. (That number may actually be higher. Almost a third of respondents (29%) say they don't know if there's been a data breach.)

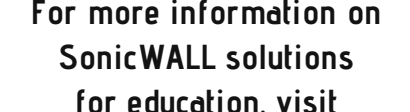


TECH SUPPORT DELIVERY

A small number of schools and districts (1 in 5) provide technical support to users after school hours. Among those, three-quarters of the time (76%), it's handled through an internal help desk. Half of the time (46%), it's handled by phone. Other times (39%), it's delivered through self-service.



For more information on Dell networking solutions for education, visit www.dell.com/k12/networking



For more information on SonicWALL solutions for education, visit www.sonicwall.com/solutions/education/



This THE Journal project, sponsored by Dell, queried K-12 professionals through an online survey issued in May and June 2016. Among the 201 participants whose responses were analyzed for this study, the primary roles within the school or district consisted of the following: administrator or district leader (30%), IT leader or staff member (28%), teacher (20%), instructional technologist (14%) and other (8%). Respondents' primary affiliations were district (40%), high school (23%), middle school (10%), elementary school (17%) and other (9%). All responses from non-school and non-district organizations were removed.