



Learning solutions  
that help students and  
teachers succeed



HP Education Device  
Buying Guide



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Blended learning has become the new norm for how schools operate. But this combination of in-person and at-home study means school administrators, faculty, and IT professionals must help teachers and students make seamless transitions between spaces. And the way to overcome that challenge is with technology that's fast, flexible, and reliable.

Here are a few things to contemplate in your purchasing decisions for academic devices:

- Performance power, including memory and CPU speed
- Media capabilities, such as an integrated webcam and microphone, as well as a headphone port
- Wi-Fi bandwidth capability
- Ruggedness/durability
- Budget constraints

See the ways that HP can support your school system's blended-learning needs with devices that are purposefully designed to make the grade.



## Solutions for teachers

COVID-19 disrupted education in a negative way. A McKinsey study found that 58% of teachers in the US saw the effectiveness of their instruction decline as classes went online.<sup>1</sup>

But the right technology solutions can help remedy unfinished learning. According to the Consortium for School Networking, “The need for online remote access for K-12 instruction and learning resources is now integral to the US education system.”<sup>2</sup>

Technology is no longer secondary to the classroom experience—teachers now understand that virtual teaching goes hand-in-hand with real-world teaching. It’s up to schools to make sure they have the resources they need to make blended learning the best of all worlds.

### Featured devices for teachers

#### HP ProBook x360 435 G8

With 32 GB RAM, the HP ProBook x360 is powerful enough to run any program, and with its AMD Ryzen processor, fast enough to respond to any task (or even multitask).

The 360° screen swivel means the ProBook can be used in four different modes: laptop, tablet (with the keyboard folded behind the screen), stand (with the keyboard facing down), and tent (with the hinge up). Teachers can take notes on the glossy touch screen, which measures 13.3" diagonally.

Other features include dual stereo speakers and a dual-array microphone.

In addition to its 5 MP front-facing camera, the HP ProBook x360 also has a secondary camera embedded on the keyboard, which allows users to take photos and video of what’s in front of them when in tablet mode.

To make the most of audio/visual setups, the ProBook has a plethora of ports, including USB ports for charging and displays, an AC power port, an HDMI port, and a MicroSD card slot.

Best of all, it’s quiet enough for students to hear the teacher and not the sound of a computer’s fan on high.



## HP Chromebook 14 G7

The Chromebook's appeal is its simplicity. The Chromebook runs Chrome OS and works with Google's services, including Gmail, Chrome web browser, and Google Docs, as well as Android apps. Importantly, Chromebooks store work in the cloud, not on a hard drive. That makes the Chromebook lightweight in pounds, though not in functionality. And users who rely on Google's many services will find it does absolutely everything they need it to do.

It has a headphone jack, three USB 3.2 ports (one USB-C), and an SD card slot. Despite this simplicity, the Chromebook 14 G7 has dual-array microphones that help students focus on a teacher's voice, even if the teacher is walking across the classroom.

The Chromebook 14 G7 has a 14" (diagonal) 250 nits<sup>3</sup> anti-glare display in either touch or non-touch configurations and 1366 x 768 HD or 1920 x 1080 FHD resolutions; 4 or 8 GB RAM; 32, 64, or 128 GB of solid-state storage;<sup>4</sup> and a wide-angle 720p webcam with an optional privacy shutter. It offers the Intel® N4500 (2-core) or N5100 (4-core) Celeron® processor<sup>5</sup> to get users up to speed, computationally speaking.

## HP Elite Display E24 G4

The right notebook computer and display give teachers the flexibility they need to work at their own desks or get seat-side with their students.

At just under 24" diagonally, the HP Elite Display E24 G4's 1080p native resolution and 60 Hz refresh rate provide a clear view of remote students, while its narrow bezels and compact frame let a teacher keep an eye on the local classroom. The IPS display supports viewing angles up to nearly 180° and a 1000:1 contrast ratio,<sup>6</sup> while the stand allows 28° of tilt, 45° of side-to-side swivel, 15 cm of height adjustment, and rotation between landscape and portrait modes. The display can even be detached and placed on a VESA mount.

But the HP Elite Display E24 G4 is far more than a simple monitor. A cleverly designed camera pulls up from behind the monitor for presenting; when not in use, it slides back down. The camera is accessed through an integrated USB 3.2 hub that also supports up to four external USB devices from two USB-A ports underneath the monitor, and two more on the back left side, one of which supports fast charging. This feature is a must-have in a classroom that's short on power outlets.





## Solutions for students

Maximum learning requires maximum student engagement, regardless of whether the environment is online or offline. And nothing interferes with engagement like a laptop that lags, glitches, and won't let the student get the work done.

These education-proven HP laptops perform the way students need them to, whether it's logging in remotely or running intensive applications.

### Featured devices for students

#### HP Chromebook x360 11 G4 Education Edition

Even before blended learning became a critical educational issue, HP designed its Chromebook x360 11 G4 EE with active students in mind. It has every feature known to Chromebooks, from dual-array mics to a 720p HD front-facing camera to the latest Intel® Celeron® processor. It even takes a page from the more grown-up HP ProBook x360 435 G8, with a 360° hinge that allows for multiple screen configurations.

The Chromebook 11 has up to nine hours of battery power,<sup>7,8</sup> which is long enough for students to finish school and get homework done. This laptop is powerful enough for those who take their studies seriously, yet rugged enough for those whose favorite class is gym. Its chassis is spill-resistant too, for those students who are more focused on their schooling...and less focused on their drinks.

#### HP ProBook x360 11 Education Edition

A 360° hinge? Check. HD touchscreen display? Check. Intel® Celeron® processor? Check. Everything that's great about HP is here in the HP ProBook x360 11 EE—and more. This notebook offers Windows 10 Pro, plus a “pick-proof” keyboard, so keys remain firmly in place. An integrated UHD graphics card helps creative kids stay creative.

The ProBook 11 is customizable, too, with add-ons that include greater RAM and a wealth of accessories, and offer extended protection beyond a standard warranty with optional HP Care Packs. This is the perfect computer for students who require more intensive applications than a Chromebook allows.

Students can be hard on laptops, but this device balances power, battery life, and ruggedness to survive the hard knocks of an academic year.





# HP Hybrid Teaching Solution

The information being taught hasn't changed, but the way teachers present it certainly has. The HP Hybrid Teaching Solution assembles essential technology tools from the business world—such as conferencing, collaboration, and instant whiteboard access—and transforms them into a compatible, user-friendly ecosystem for classroom use. These devices are compatible with Zoom and Microsoft Teams apps.

Even outside the realm of blended learning, the HP Hybrid Teaching Solution can help students stay current when they miss class (such as snow days or sick days) or are on a homeschool curriculum. It can also keep parents in the loop on their child's studies.

## Featured HP devices

### Communications hub: HP Elite Slice G2

The Elite Slice G2 is the audio/video hub that every school needs—a communications center in compact form. Each “slice” is a modular toolkit, such as a speaker and an optical drive, which permits multiple configurations. Its stackability creates a small form factor that fits comfortably on any desk, or mount it with an optional VESA plate.

Supporting Zoom Rooms and Microsoft Teams conferencing technology, the Elite Slice G2 pairs with the included Center of Room Control—a 12" (diagonal) capacitive 1920 x 1280 touch screen—for system control. A presentation display can be connected through DisplayPort™ (DP), HDMI, or an optional wireless HDMI display module. Teachers can connect

a video source through a USB-C® (DP alternate mode) port or the included Video Ingest Module.

The Elite Slice G2's side-firing speakers provide audio, while four upward-facing microphones capture voice input. For rooms with an integrated audio system, the Elite Slice G2 also comes in a slimmer Audio Ready form that dispenses with the speaker slice. Two USB Type-A ports allow the attachment of a keyboard or mouse, a USB camera, audio devices, or other peripherals. Online connectivity is handled by the integrated Ethernet jack or Wi-Fi.

## Monitor: HP LD 6501

Educators could rely on a basic display or whiteboard in their classroom, pointing a camera at it and presenting to their remote students. Or they could have an HP LD 6501 premium display.

This LCD display is a front-of-room interactive 65" (diagonal) large-format display. It's easily wall-mounted so classroom students can see both the screen and the teacher. Teachers can draw on the screen directly and cast it to remote learners.

Remote students can follow along on videoconferencing systems, such as Zoom, Teams, Skype for Business, or Cisco Webex.



## Compatible partner devices

### Camera: Logitech® Brio™ 4K

The Logitech Brio 4K webcam is a simple plug-and-play device that lets teachers get on with the business of teaching—not the business of tech support.

In the video world, 4K resolution (3840 x 2160 pixels on a monitor display) is rapidly becoming the new standard. The Brio 4K webcam streams crisp, clear visuals while keeping the teacher front and center with autofocus. It has 5x zoom, too, which lets teachers hone in on small details without a loss of resolution.

But its wow factor doesn't end with the visuals. The Logitech Brio 4K has two omnidirectional microphones. Its Logitech Capture software offers simple yet powerful options, such as text overlay—a feature that allows teachers to emphasize lessons in a way students can't miss. The camera has an up to 90° field of view, so students at home get a clear view of the classroom.

### Camera: Jabra® PanaCast™

With HP Elite Slice G2 communications hub and the right monitor, camera, and advanced large-screen display, every student can be engaged, whether they're physically in the classroom or not.

The Jabra PanaCast uses three 13-megapixel cameras to capture a 180° view of its surroundings. Unlike famed "fish-eye" lenses that distort images, the PanaCast uses real-time video stitching to balance this view and give viewers the sense that they're huddled together with everyone else in the room. In essence, the PanaCast gives viewers their own seat at that table, which helps home-based students stay immersed in their learning environment.

Its stand-out feature is the ability to highlight a teacher's white- or blackboard. Select the corners of any on-camera whiteboard with a mouse; the screen displays both a 180° view of the classroom and the whiteboard. Or if a teacher wants to draw attention to the content, the Panacast can display just the whiteboard itself. Teachers can capture up to three boards and toggle among them.

PanaCast works with most collaborative services and comes with two microphones and with speakers built into the bar.





## STEAM solutions

In the STEAM fields—science, technology, engineering, arts, and mathematics—the educational emphasis is on science and the arts and the way they integrate with other learnings. That includes practical, hands-on work. HP Z has the devices educators need to turn their classrooms into full-fledged STEAM labs where students can learn to build code that creates games, guides robots, and solves mazes.

### Featured devices for STEAM education

#### HP Z2 Mini G5 Workstation

A school STEAM lab has a project that requires a top-notch yet affordable engine. It's the HP Z2 Mini G5 to the rescue. There's a lot of power in this workstation, including a reliable 8 GB of DDR4-3200 memory, a 256 GB Z Turbo Drive TLC SSD, and an Intel UHD graphics card—everything students need to delve into STEAM. For other build choices, there's an abundance of options, impressive in a workstation this compact (8.5" x 8.5" x 2.28").

A capable six-core Intel® Core™ i5-10500<sup>5</sup> processor allows educators to run multiple programs simultaneously so students can collaborate on different projects. With three display ports, students can keep their eyes on every aspect of their work as it progresses.

#### HP ZBook Power G7 Mobile Workstation

It may look like a simple laptop—and it is, in fact, a laptop with a light-but-strong aluminum chassis and a 15.6" diagonal screen with an ultrawide viewing angle. In fact, the ZBook Power G7 is no mere laptop, but a workstation.

Workstations are the computer of choice for higher-level learning with demanding computational needs, such as animation, intensive graphical rendering, and data science. With an Intel® Core™ i7-10750H<sup>5</sup> and 16 GB DDR4-3200, this is the laptop that will leave no child's STEAM project behind.

Highly upgradable, this device enables students to expand its capabilities for extra-challenging projects, such as in computer science.

## HP ZBook Firefly G8

The G8 takes what's good about the G7 and makes it even better. The ZBook Firefly G8 delivers up to 14 hours of battery life,<sup>7,8</sup> even with its powerful NVIDIA® 4 GB Quadro™ T500 graphics card. STEAM students will love its ability to render graphics in 3D and keep up with their many projects—thanks to an Intel® Core™ i7-1165G7<sup>5</sup> (4-core) and 16 GB of DDR4-3200.

In addition to being quiet, it's also lightweight, so teachers can easily ferry it from classroom to classroom.

## HP Z24n G3 Display

The ultrathin Z24n boasts an ergonomic design and a 16:10 aspect ratio anti-glare IPS panel with a resolution of 1920 by 1200 pixels (WUXGA) and a 60 Hz refresh rate. This gives it an extra 120 pixels of vertical space, making it a superior choice for classroom applications.

HDMI, DVI, DisplayPort, and mini-DisplayPort inputs are supported. An additional DisplayPort output can be used to daisy-chain a second display with a single cable. It also features a slim bezel design, making it a practical and aesthetic choice for a dual-monitor setup; teachers can place students on one screen, their lessons on the other.

Data visualizations will pop on a screen that's factory-calibrated to a highly accurate 99% of the sRGB color gamut. The Z24n supports 350 nits of brightness and a 5 ms response time. An ergonomic stand supports a full range of tilt, swivel, and height adjustment.

A four-port USB 3.0 hub is integrated as standard. The optional Z Display Conferencing speaker bar can be attached to the Z24n to provide stereo audio and dual microphones for video meetings and presentations. Prefer the simplicity of an all-in-one device? Just attach an HP Z2 Mini directly to the back of the Z24n with an optional mounting bracket.

The Z24n boasts an ENERGY STAR®-certified A+ energy-efficiency rating, backed up by construction using plastics consisting of over 80% recycled materials in compliance with the Electronic Product Environmental Assessment Tool (EPEAT®). That makes it a top pick for the environmentally minded.



Certified for Project Lead the Way Gateway  
and Engineering Programs<sup>9</sup>



## HP ZCentral Remote Boost<sup>10</sup>

It's the collaboration tool the collaboration tool that students never knew they needed: a remote desktop solution that lets students access their school workstation via their own home computer, mouse, and keyboard. Remote Boost is quick, eliminating the lag that made online work, online school, online *anything* so difficult in the past. Simply download the software, run it, and now they're now working from a distance on another, more powerful machine.

All students can connect to the school's workstation with this solution, and all students with ZCentral Remote Boost can work on the same projects, regardless of whether they use Mac, Windows, or Linux.





## Virtual reality solutions

Virtual reality (VR) may be the biggest innovation the classroom has seen since chalk. VR immerses students in digital environments from historical sites to science labs and allows them to engage in the subject matter. Thanks to VR, students can explore ancient Rome or dissect a frog.

But it takes capable workstations to fuel this knowledge revolution. Here's what HP has to offer.

### Featured devices for VR

#### HP Z2 Mini Workstation

The Z2 Mini Workstation is an entry into the virtual world. In the world of STEAM, the Z2 Mini is there to help students with their real-world projects. But VR requires more power than the standard configuration recommended for STEAM. With its wonderful customizability, the Z2 Mini gives schools choices for which version works best for their students and their budget.

Intel® Core™ i9 or Xeon® Processors. NVIDIA Quadro RTX 3000 or Radeon™ Pro WX 3200. Windows 10 Pro or Linux®. Any of these builds can provide students with a virtual environment in which they can explore and learn.

#### HP Z2 G8 tower workstation

The Z2 G8 tower is a workhorse of a workstation, with professional graphics card options (NVIDIA RTX A5000 or AMD Radeon Pro W5700 graphics); up to 128 GB DDR-4 3200 SDRAM; either Intel® Core™ or Intel® Xeon® processors; and up to 28 terabytes of storage.<sup>4</sup> The Z2 G8 tower workstation has what educators need to bring virtual reality to life.

The G8 tower can also support up to three internal storage devices, so it's not just customizable—it's expandable, too, so it can grow as your students do. And with its ability to handle heavy workloads, when students aren't in virtual reality, they can be programming it.

## HP ZBook Create G7

The ZBook Create G7 is one of HP's most powerful laptops, one that's—as the name implies—aimed at creators. Equipped with an Intel® Core™ i7-10750H processor and 16 GB of DDR4 3200 MHz RAM, it's more than ready to render graphics, edit video, run virtual reality headsets like the HP Reverb, and multitask other intensive processes.

The ZBook Create G7 gives students the best of both computing worlds, managing power-hungry workflows and providing long battery life. The laptop features both Intel UHD integrated graphics and an NVIDIA GeForce RTX 2070 with Max-Q Design (8 GB GDDR6 dedicated). While having integrated graphics consumes less power for everyday tasks, when users need to put the pedal to the metal, the GeForce kicks in.

When they finish their work, students can view it on the ZBook Create G7's OLED screen, famed for its bright colors and deep blacks. In this way, students' work automatically goes from “perfect” to “picture perfect.”

## HP Reverb G2 Headset

With a combined resolution of 4320 x 2160, the HP Reverb G2 provides the immersive VR experience educators need to keep students engaged in a virtual environment. Superior to budget gaming models but avoiding the high cost of “professional” setups, the Reverb G2's 90 Hz refresh rate and expansive 114° field of view (FOV) provide a fully immersive experience. Plus, comfortable cushioning and a removable face gasket allow the 1.1-pound headset to be worn comfortably for longer periods.

Designed in collaboration with Valve—a leader in VR equipment design—the Reverb G2 features best-in-class audio, courtesy of integrated adjustable ear speakers, as well as Valve-designed lenses.

The HP Reverb G2 incorporates four cameras that provide inside-out tracking, without the need for external tracking hardware or room setup. With right-out-of-the-box platform support for both Microsoft Windows Mixed Reality (WMR) and Valve SteamVR, Reverb G2 provides access to a full range of educational and other VR experiences, without requiring an additional social media account. The Reverb G2's WMR controllers feature an updated ergonomic design to improve the interactive experience.

## HP Reverb G2 with Omnicept

The HP Reverb G2 with Omnicept takes everything that's great about the Reverb G2 and adds a suite of state-of-the-art biometric sensors to track eye gaze, pupil size, heart rate, and even facial muscles.

Designed in collaboration with Tobii, experts in eye tracking technology, the HP Reverb G2 with Omnicept provides real-time insights to assess audience engagement or to measure a student's cognitive load to better understand their performance in virtual reality training sessions.

VR applications can connect to the Omnicept's sensor data to, for example, react to what the user is looking at, or to increase the rendering detail at the point of focus (foveated rendering), improving detail while reducing required computing power.

The Omnicept can also deliver a personalized experience with dynamic head-related transfer functions (HRTF) to provide immersive 3D spatial audio through the Reverb's high-quality ear speakers.

## Windows Mixed Reality tools

The Unity game engine was used to make 23 of the top 50 games on Steam,<sup>11</sup> almost 50% of the best-selling indie games on Switch (44% MWU), and more than 70% of the 100 top-grossing mobile titles.<sup>12</sup> Windows offers the Mixed Reality Feature Tool for Unity, so students can develop their own Unity-based virtual reality programs.

### Nanome AI

Thanks to virtual reality, students can model proteins and molecules with Nanome and collaborate with teachers and students worldwide.

### Ovation public speaking

Ovation trains students to speak in public, helping them overcome a fear shared by 25% of all Americans.<sup>13</sup>

### VictoryXR labs and curriculum

VictoryXR labs is a classroom realized in a VR space. With an emphasis on science, virtual classes have included dissecting frogs and flying pteranodons.

### Google Earth (create your own projects)

Google Earth lets students examine their data and use it to read and create maps, follow birds on their migration, and learn facts about the world around them. To confirm its commitment to exploration, Google Earth has teamed up with Dora the Explorer, too.

### ENGAGE VR

ENGAGE VR is a virtual space that lets teachers teach in a simulated classroom...unless they feel like teaching outside the classroom. Then it allows them to bring the class to the virtual outdoors...and suddenly they have their own online field trip.

The next frontier of learning requires some serious computational horsepower and the software to drive it. Our line of workstation-class hardware and advanced visors can help bring the virtual experience into classrooms.





# Education software, services, and beyond

## HP School Pack 4.5 bundle

The School Pack 4.5 is a collection of services and apps built into a digital backpack of tools for enhanced learning.

- HP Classroom Manager 4.0<sup>14</sup> allows students to connect to a classroom equipped with the HP Classroom Manager system.
- Kortext e-Textbook reader and bookstore<sup>15</sup> enables students to log into their textbooks, rather than haul them in a backpack.
- Bulb Digital Portfolio<sup>16</sup> lets students do their homework and create projects on bulb, which is shareable across desktops, tablets, and phones.
- FluidMath<sup>17</sup> is a math app that recognizes handwriting, so students will never have to type notations again.
- HP Prime Graphing Calculator Pro<sup>18,19</sup> is more than just a calculator. It's like a computer dedicated to math, complete with touch screen and apps, in a pocketable form factor.
- VictoryXR™ Augmented Reality<sup>20</sup> is an app that lets students explore the world from the comfort of their cell phone.

## Give IT the support they need to keep students and teachers productive

Your IT teams already have more assignments than they can complete on time. Ease their workload with these essential management services that get devices up and running faster—and keep them that way.

### Streamline device deployment

Give your students and staff a simple out-of-box device setup experience, no matter whether they are on campus or at home. With HP Device Provisioning Services, part of the HP Configuration Services suite, your PCs come ready to use, straight from the factory—arriving cloud-ready and preconfigured with your policies.

### Keep up with your equipment

Control costs with asset tagging, which helps you keep track of devices as students ferry them between home and school.

### Protect against the “oops” moments

Ensure minimal disruption for learners when you extend coverage beyond standard device repair and warranty. HP Accidental Damage Protection<sup>21,22</sup>—part of HP Care Pack Services<sup>23</sup>—protects your investment in academic devices with continuous coverage for parts and labor, 24/7 real-time chat and phone support, remote diagnosis, door-to-door pickup and return, or on-site service. Whether your students and staff encounter a drop, spill, or other type of accidental damage or acts of nature, we help you limit downtime and frustration—while keeping costs in check.

HP has a wide array of classroom devices and support services that can help students grow.

Whether it's for students and teachers, for STEAM or VR, HP has what education needs to bring learning to life.



Learn more about HP blended-learning solutions at the budget that's right for any school.

Let us know how to reach you with this quick [form](#).

<sup>1</sup> McKinsey & Company, Teacher survey: Learning loss is global—and significant, March 2021, <https://www.mckinsey.com/industries/public-and-social-sector/our-insights/teacher-survey-learning-loss-is-global-and-significant>

<sup>2</sup> Consortium for School Networking, Student Home Connectivity Study, Spring 2021, [https://emma-assets.s3.amazonaws.com/paqab/37cf06d0de533f59eb780f4ec065d766/Home\\_Connectivity\\_Study\\_Report\\_5.3.21\\_FINAL.pdf](https://emma-assets.s3.amazonaws.com/paqab/37cf06d0de533f59eb780f4ec065d766/Home_Connectivity_Study_Report_5.3.21_FINAL.pdf)

<sup>3</sup> Actual brightness will be lower with touch screen or HP Sure View.

<sup>4</sup> For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB (for Windows 10) is reserved for system recovery software.

<sup>5</sup> Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

<sup>6</sup> All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<sup>7</sup> Testing conducted by HP using Google Chrome OS power\_LoadTest. Battery life will vary and the maximum capacity of the battery will naturally decrease with time and usage and battery optimization activation.

<sup>8</sup> See <http://www.chromium.org/chromium-os/testing/power-testing> for test details. Battery configuration and charge capacity is optimized to improve battery health over time based upon charging patterns and temperature.

<sup>9</sup> Windows 10 MM18 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See [www.bapco.com](http://www.bapco.com) for additional details.

<sup>10</sup> Select Z by HP product configurations meet Project Lead the Way (PLTW) specifications to be designated as learning devices for Gateway and Engineering. See the list of specifications at: <https://www.pltw.org/mypltwresources>

<sup>11</sup> HP ZCentral Remote Boost Sender does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. ZCentral Remote Boost Sender for non-Z Hardware requires a license and Windows 10, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. Requires network access. The software is available for download at [hp.com/ZCentralRemoteBoost](http://hp.com/ZCentralRemoteBoost).

<sup>12</sup> Game World Observer, Unity dominates Steam's top 50 best games list as most popular engine, July 2021, <https://gameworldobserver.com/2021/07/27/unity-dominates-steam-top-50-best-games-list-as-most-popular-engine>

<sup>13</sup> My Nintendo News, Nintendo reveals the best-selling indie games on Switch in 2020, December 2020, <https://myintendonews.com/2020/12/29/nintendo-reveals-the-best-selling-indie-games-on-switch-in-2020/>

<sup>14</sup> Psychology Today, "Why Are We Scared of Public Speaking?," November 27, 2017, <https://www.psychologytoday.com/us/blog/smashing-the-brainblocks/201711/why-are-we-scared-public-speaking>

<sup>15</sup> HP Classroom Manager for Teachers is required and sold separately for control and device locking from the teacher's Windows desktop console; no locking and control functionality originates from HP Classroom Manager for Student. Control and device locking originate from the teacher's Windows desktop console.

<sup>16</sup> Internet access required; e-textbooks sold separately.

<sup>17</sup> Bulb Digital Portfolio includes full version 6-month trial. After 6 months, the number of published pages is limited to 10 and storage to 2 GB. To retain full functionality, subscription required prior to the end of the 6-month trial period.

<sup>18</sup> Fluid Math 1-year subscription included. Additional years available for purchase from Fluidity.

<sup>19</sup> HP Prime Graphing Calculator cannot be reinstalled if customer removes or creates a custom image.

<sup>20</sup> HP Prime Graphing Calculator Pro included with HP School Pack and may be purchased separately for other devices from the Windows, Android, or Apple Store.

<sup>21</sup> Customer is entitled to 1 free augmented reality course including printable workbook, additional courses and workbooks must be purchased separately.

<sup>22</sup> Eligibility for purchase of the Accidental Damage Protection service feature requires the product to be covered by a factory warranty or a warranty extension service with coverage duration equal to or longer than the Accidental Damage Protection service. The Accidental Damage Protection service feature provides protection for operational or mechanical failure caused by an accident from handling which occurs in the course of the normal intended use of the product.

<sup>23</sup> HP does not limit the number of qualified accidental damage from handling claims for the duration of the HP Care Pack agreement; however, accidental damage claim rates for each HP product model and Customer account are constantly monitored; HP reserves the right to physically audit and/or collaborate with the Customer if claim rates are high. Unlimited Accidental Damage Protection Care Packs are available for select HP platforms in the U.S. only.

<sup>24</sup> HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit [www.hp.com/go/carepack](http://www.hp.com/go/carepack).

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