Solutions guide

Education

Improving outcomes one student at a time
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Access + Learning = Outcomes

HP solutions for education provide total access to content, curricula and peers, while enabling true learning to create meaningful outcomes.

HP Education

From an unprecedented availability of information to the range of devices that bring learning far beyond the classroom, educational opportunities have evolved dramatically in the 21st century. The trouble is, many students and educators still lack access to these tools or the knowledge to use them effectively. When schools, districts, and countries aren’t equipped with the best that education has to offer, outcomes suffer.

At HP, we believe that everyone—no matter who they are or where they come from—has the right to a quality education. We’re proud to be a premier provider of technology solutions for education, offering efficient and effective access to resources anytime, anywhere. But we’re more than just a vendor—we’re also a partner who empowers users by helping ensure that the right people utilize the right tools in the most effective ways.

We’re driven by the knowledge that as we help to build better education systems, we’re helping to achieve meaningful outcomes for us all. By creating engaging experiences, we can help raise student engagement and graduation rates. Our ability to scale allows us to help students in the most marginalized communities develop skills that are in demand—leading to a more prepared, skilled workforce ready for the jobs of tomorrow. And our cutting-edge assessment technology verifies that students aren’t just showing up at school, but actually learning and preparing for their future.

Total Access

In order to become effective citizens of the 21st century, children need access to educational content, curricula, and communities that will prepare them to thrive in today’s global economy. Technology can provide access to content, curriculum and learning communities on an unprecedented scale, enabling you to breach the boundaries of your classroom. This information—and the people responsible for delivering it—must also be accessible whenever, wherever, and however they are needed. HP technology is able to provide all of this by offering end-to-end solutions, even in the most rural and remote parts of the United States.

From the selection the appropriate devices to deliver a relevant and personalized learning experience, making sure they are safe and secure, affordable, easy to deploy and support, HP can help you transform teacher-student interactions and help students realize their full potential.

True Learning

When the right people are given the right tools, almost anything is possible. Opportunities blossom when everyone is empowered to control their own educational experience. The educational experience is so much richer when the content is personalized to the needs of the student.

HP believes in the value of the Hybrid Learning model, combining the best of digital printing with electronic content, to optimize learning outcomes. Print continues to deliver intrinsic educational value that facilitates true learning with deep engagement, and high levels of comprehension and retention. Along with electronic channels for mobile consumption and student feedback and analytics, we can get the most out of technology, and being given the opportunity to do so not only makes things easier, it makes them greater.

At HP, we don’t just hand out gadgets. We provide the support and training necessary to turn a device into an instrument of change.

Meaningful Outcomes

HP offers new ways to analyze learning, economic, and social indicators to make sure investments pay off this semester and for the future of our communities.

Learning outcomes

There’s a big difference between learning in school and simply showing up. By effectively using the right devices and assessment tools, educational leaders can ensure that children aren’t just being exposed to material, but are gaining the skills and knowledge they need to succeed.

Social outcomes

Children who are engaged in school can become more active, empathetic, and globally aware, leading to increased participation in their communities and beyond.

Economic outcomes

By helping children develop skills that are in demand, countries can become more advanced and competitive, leading to improved economies, employment opportunities, and income, even for the most marginalized.

Value to your community

Teachers
We make a difference in your classroom, so you can make a difference in the lives of your students. Spend your time where it counts—HP makes it easy to control your classroom and manage individual student needs. Always be at the top of your game by using technology to engage students and enhance your lessons.

Families
Enable students to succeed by providing total access to the world’s collective knowledge on the web. Keep students safe online through technology filters, and empower them to stop cyber-bullying in its tracks. Parents, guardians and grandparents can now check on student progress and communicate with teachers electronically in real time, ensuring the right amount of participation in their student’s education.

Administrators
We deliver reliable technology solutions at an affordable price, so you can focus on improving educational performance. With HP, you can provide a safe online environment for your students while ensuring an active use of technology. Let HP help you minimize your school’s total cost of ownership and maximize student achievement.

Government Leaders
We deliver better education solutions, so you can deliver a better quality of life. HP can help you overcome limited local resources while assisting your district’s students to excel on state and national assessments. Let HP help you demonstrate success by managing costs and resources effectively, helping plan for improved economic success of the region and ensure students are prepared for the jobs of tomorrow.
“Mobility and the cloud have the power to enable both total access and true learning for education systems around the world. Insights from big data can inform teachers and administrators how to improve student achievement. Combined, the New Style of IT for education is about student-centric, anytime, anywhere learning driven by personalization to maximize meaningful outcomes.”

– Meg Whitman, CEO, Hewlett Packard
HP Personalized Learning Framework

The HP Personalized Learning Framework helps systems, from ministries of education to the smallest districts, create meaningful outcomes for their schools and communities.

From initial-visioning and stakeholder engagement to deployment and assessment, the comprehensive plan leverages the combined experience of thousands of schools around the world. The step-by-step approach allows for a disciplined, cadenced approach to education transformation, personalized learning, and the democratization of education. The framework is parsed into four major sections: Policy, Readiness, Deployment, and Sustainability.

Policy
Creating high-quality policies is especially important to schools who are implementing new education technology programs. Policies should align with state and national strategic goals to support meaningful outcomes. They should also leverage education policy, particularly concerning curricular issues. Students and families should be prepared to understand the new policies regarding the appropriate use of technology and online etiquette, while ensuring personal and data security.

Teachers should play a major role in the development of these policies, especially those which affect classroom activities and student academic integrity. Lastly, policies regarding student submissions, online assessments, and participation ensure the proper and active use of technology inside and outside of school.

Readiness
School readiness encompasses infrastructure, personnel, processes, and culture. HP provides education technology readiness assessments for schools around the world. The critical success factors for readiness include Total Access elements like network capacity and a strong server strategy, while True Learning readiness requires a solid learning management system, curricular relevance of digital content, and, most importantly, professional development for teachers.

By far, the most underestimated factor for readiness is school culture: all stakeholders, from parents to principals, should define their own readiness via self-evaluation. Enablement and technical readiness are only the first steps. Empowerment and a cultural consensus should also be achieved. This will ensure readiness: maximizing learning and minimizing conflicts when projects are deployed.

Deployment
Once policies and readiness are established, deployment planning can begin. Having distributed over 25 million tablets, notebooks, and PCs to schools during the last decade, HP offers sound advice to schools. Two difficult decisions must be made prior to deployment: hardware and software. The hardware should be compatible, resilient, and connected. The software should enable collaboration, creativity, and critical thinking. Combined with cloud services such as learning management systems, these components form the basis for an effective district Learning Platform.

The Learning Platform should be thoroughly tested prior to deployment for compatibility, user experience, and connectivity. In their eagerness to deploy personal technology, many school districts do not adequately test platforms, which can have disastrous effects, both on near-term student and faculty annoyance, but also on the long-term viability of the education technology program. For instance, all content and assessment should be tested to comply with screen size and pixel limitations of devices. Often, content (even test questions) will “bleed” beyond the screen if the developer did not create software using a specific configuration.

One of the most exciting and engaging milestones of deployment is the “out of box” event. This is a well-organized activity where students and families first receive their devices. These events also allow for school officials to review key policies, rules, and regulations regarding the appropriate use of technology and social media. Further, these events serve as excellent opportunities to generate enthusiasm for education technology programs.

Sustainability
Education technology programs should last beyond one year’s budget, and recycling has been a universal staple of modern curricula for years. Building a sustainable program means ensuring a long-term commitment from all stakeholders to the program, managing technology obsolescence, and performing responsible e-waste management.

The best way to ensure continued enthusiasm, adoption, and active use is to create a clear communications program. When vision, policy, curricular, and assessment choices are made, they should be communicated to the entire community in a transparent fashion. This transparency simultaneously provides information to stakeholders on a timely basis, while communicating the roles and responsibilities of all participants from system leaders to families.

To manage the rapid pace of technological change, many schools have adopted financing programs. These programs enable a “technology refresh”—replacing technology at regular intervals, usually every 2–3 years. By replacing technology, schools can avoid hardware and software obsolescence, so that every student and teacher takes advantage of the latest technology, operating systems, and network protocols. Moreover, many school systems favor this method from a financial perspective, as leased or financed assets often reside within operating budgets versus ephemeral capital.

Along with addressing technology obsolescence, recycling affords the responsible recycling of devices. When assets are returned at the end of a lease or financing arrangement, Hewlett-Packard Financial Services responsibly recycles or redeploy assets, carefully ensuring that all sensitive school, student and teacher data is deleted to U.S. Department of Defense standards.
Digital print + electronic: the HP hybrid learning solution

When it comes to learning, both print and electronic formats offer proven benefits. The HP hybrid learning solution delivers the best of both formats to optimize learning outcomes.

Printed textbooks

Large, heavy textbooks are old school. Often, they are outdated before they even make it into the hands of students. Many teachers use only a fraction of the book to teach the course. Textbooks can create waste as many are shipped from warehouses to bookstores and then, when they are never used, sent to recycling centers, or worse yet, sent to landfills.

Despite their drawbacks, the educational value of printed textbooks continues to be substantial. Based on HP surveys and independent studies, students aged 8 to 16 prefer reading from paper books than reading on digital displays like tablets. Moreover, the National Literacy Trust study of 34,000 children found that printed books are much more likely to develop strong readers. Research shows that comprehension and retention are higher when reading from paper versus electronic due to the fact that the brain interprets printed and digital text in different ways. Students tend to read printed text 10–30% faster than digital text. In addition, reading from printed textbooks also helps students avoid distractions that they might experience when reading from a digital device. Text messages, email and social media pop-ups don’t happen in printed textbooks.

Various research studies have confirmed that students engage more deeply with printed textbooks and prefer print for sustained, in-depth reading. Researchers at Ryerson University found that undergraduate students “believe they learn more using the paper textbook versus the e-textbook in part because they are able to study longer with less physical and mental fatigue.” This helps educators understand why 75% of students prefer printed textbooks over electronic versions.

Electronic content

According to a recent study, the largest problem that remains in education today is connecting technology to curriculum content and the learning process. Technology can be a silver bullet, proven by the fact that many well-funded digital classroom projects have encountered difficulties in implementing a 100% electronic content strategy. In South Korea, a $2 billion initiative to be paperless by 2015 shifted to a more reasonable hybrid print and electronic model in 2012 after encountering challenges with student distraction and focus. An e-content pilot program to explore transitioning from printed textbooks to electronic platforms found students expressed a preference for conventional printed textbooks over e-textbooks.

Hybrid learning model

In the HP hybrid learning model, printed textbooks are the gateway for technology integration in the classroom. The printed textbook acts as a classroom script for curriculum and controls the gateway to electronic platforms designed and selected to support that curriculum for more interactive and collaborative learning. In a move that could transform the education textbook market, the HP hybrid learning solution includes textbooks printed on-demand. By printing textbooks in short runs with no waste, printed textbooks become more affordable. On-demand textbook printing also offers the flexibility to print only the content needed, ensuring textbooks are customized, up-to-date and in a format preferred by teachers and students.
River Dell Regional School District creates 21st-century learners

Student-centric learning, personal technology and comprehensive teacher readiness deliver meaningful outcomes to a leading district in New Jersey.

Success story at a glance

**Application**
- 1:1 technology program for grades 7–12

**Hardware**
- HP EliteBook Folio Notebook PC

**Software**
- **Windows**
  - Combining device management and a vast array of education applications, Windows was the natural choice for River Dell. In addition, student experience using Microsoft Windows and Microsoft Office are highly sought after skills according to Monster.com.
- **Turnitin®**
  - Turnitin is a comprehensive cloud-based solution that helps students learn by facilitating personalized feedback. By ensuring originality, enabling smarter grading and streamlining peer reviews, Turnitin is at the forefront of the next generation digital school tools.
- **Dropbox**
  - Students and teachers use Dropbox to share files, photos and assignments. Everyone, even family members, can access these (with permission) on their EliteBook Folio Notebook PCs, mobile phones or tablets.
- **DyKnow™ Vision**
  - DyKnow Vision is a collaborative learning tool that helps teachers present lessons and assess how well each student understands the concepts during a lesson. The best part: every student leaves class with the teacher’s notes and their notes in a personalized notebook which can be replayed anytime, anywhere. Teachers love this tool for sharing and recording content, assessing understanding, and interacting with students.

**Services**

- **HP Self-Maintainer Program for Schools**
  - The Self-Maintainer program allows schools to become authorized warranty service providers. This means immediate triage for hardware issues and faster service turnovers to minimize student and faculty downtime.

**Keys to a successful 1:1 technology program**

- Collaborative planning using the HP Personalized Learning Framework to build a shared vision that includes all stakeholders, including HP
- Migrating to a learning-centric pedagogical model which focuses on students rather than content
- Intelligently integrating digital tools to work with the curriculum. Empowering students with content creation to improve analytical thinking and synthesis
- Standardizing on a single device to simplify deployment and support, while promoting equal opportunities for students regardless of income
- Continually assess and improve the program using technology tools and qualitative program evaluation
- Creating and implementing a comprehensive professional development program so that teachers feel comfortable and empowered to teach with technology

“When the successful integration and use of technology continues to make a profound impact on education in our district’s schools.”

— Marianthe Williams, Director of Technology, River Dell Regional School District, Bergen County, NJ

When River Dell Regional School District set out to improve its 1:1 technology program, access to an HP educational strategist helped keep the focus on its goals of improving teaching and learning through technology. As a result, the program has increased student engagement and enthusiasm about the educational process. High student achievement—a 95% graduation rate and a 94% college matriculation rate—has earned the district a spot on Newsweek magazine’s list of America’s Best High Schools.
Enabling instructional innovation

Technology has enormous potential to improve the teaching and learning process.

Technology enables real-time assessment, learning analytics and content personalization. Recent pedagogical innovations include digital project-based learning, blended learning, online collaboration, live polling, real-time annotation, discussion groups and participation analytics. Instructional innovation is occurring at a very rapid pace, and these are only a few examples of the evolving teaching profession.

Schools first need to establish a district-wide commitment to ongoing professional development and instructional innovation at all levels: from the superintendent to tech coordinators to teaching assistants. Next, districts must select and make these enabling technologies available for experimentation. The best instructional technologies are cross-platform and compliant with accessibility requirements.

One excellent example of a new class of instructional tools are classroom management technologies, like HP Classroom Manager [add link to HPCM page]. These tools allow teachers to monitor student activity during class while limiting internet connectivity or applications. More importantly, HP Classroom Manager allows teachers to collect and act on feedback from all students, not just the ones in the front row. By conducting polling, gathering participatory data and facilitating collaboration, teachers can use classroom management technology to feel more comfortable and accelerate technology-enabled learning.
With HP Education Services, you can ensure technology is leveraged on day one—and beyond. By combining vision, leadership, and training, you have the ability to empower excellence in your classrooms and transform your school system.

**Help IT get it right**

Our consultants can help your IT team design and implement world-class, technology-based learning solutions. HP Education Consulting Services are designed to help districts and schools identify key needs and take on district- and school-wide initiatives. HP offers five consulting services, delivered by industry experts, from program design and project management to implementation of technology and integration of curriculum.

**Empower your teachers to succeed**

Get your teachers excited about their ability to use technology in instruction. With HP Education Services, you can transform your classrooms by giving educators a solid understanding of how they can better leverage the internet, digital content, learning software, and classroom software to enrich students’ experiences. HP Education Services can prepare your teachers to embrace the technology embedded within the Common Core standards, ensuring you’re ready for Common Core compliance.

**Chrome™ Academy**

An example of one of the many professional development courses offered by HP Education Services is the Chrome Academy. Designed for new and experienced teachers, and curriculum and instructional leaders, the Chrome Academy is a four-day workshop that provides a full understanding of technology’s critical role in today’s classroom. The Chrome Academy provides a comprehensive introduction and overview of the basic use of Chromebooks in the classroom through extensive discussions and collaboration, as well as group activities and projects. This course includes an overview of the basic and advanced Google Apps™ and tools used in the classroom including Gmail, calendaring, Google Drive™, and how to create documents, spreadsheets, and presentations using Google Apps.
"The personalized and private interaction [provided by HP Classroom Manager] makes the relationships between teacher and student easier. Students do not notice another student being corrected, which could result in students laughing at others. It is a positive experience for student motivation. It’s also a way of interaction that is not as intrusive as the more physical approach."

– Edgar de León, Computer Science teacher, Instituto Justo Arosemena

**HP Classroom Manager**

Classroom control, management and collaboration with easy-to-use education software.

Take control of the classroom by managing student PCs, Android™ devices, and Chromebooks with HP Classroom Manager 2.0. You will enjoy an intuitive, easy-to-use experience with the array of HP Classroom Manager digital tools designed to redefine the digital classroom, prevent unwanted distractions, and enhance student learning.

**Take control**

With HP Classroom Manager you can take control of student desktops to deliver content, as well as restrict applications, hardware devices, and web access. Form student chat groups to discuss topics either one-on-one or in groups. Convert optical drives, USB devices, and other external drives to read-only mode to help avoid the introduction of unauthorized materials and viruses or the theft of classroom content.

**Monitor students**

HP Classroom Manager is like an extra set of eyes helping you keep track of your students. Watch student progress and promote engagement by monitoring open applications, web usage, and even student keyboard strokes and keyward tracking to ensure comprehension. You can even capture and review previous student activities with web, application, IM, and printing histories.

**Foster collaboration**

HP Classroom Manager encourages collaboration with the ability to share student work across all systems. Enrich student learning through collaborative sharing of instant messages, group chats, websites, documents, and more. You can even compile a PDF journal throughout the day to help students keep track of the day’s activities and assignments.

**Assess performance and progress**

HP Classroom Manager lets you tap into a portfolio of customizable formative assessment tools. Gauge comprehension levels with response surveys. Deploy game show--style question-and-answer quizzes to promote collaborative learning. Create multiple choice, true/false, and essay tests, with audio and video files, and track student scores in real time. Use the audio-monitoring feature to capture and play back student voice recordings—ideal for language lab settings.

**Efficiently manage**

HP Classroom Manager allows you to control student computers from the teacher or technician console. Centrally start them so they are ready to go when class starts and shut them all down after class to conserve power. Keep printing costs in line by viewing and managing student printing activities and exchange files.

**Integrated support**

HP Classroom Manager’s technician console helps your school’s IT staff deliver integrated support to the classroom. The tech console allows IT administrators to take remote control of connected PCs and remotely monitor website activity and application usage with detailed hardware and software reports. Easily establish firewalls, distribute files, and update and install software on all network PCs simultaneously. The "Get Support" button on the teacher console makes it easy to support teachers who need IT assistance.

*Teacher and technician console*
Teaching a room full of students how to perform complex calculations on an HP calculator used to be very challenging. Waiting for students to find the correct key from verbal commands alone was difficult enough, but the first student who pressed a wrong key ended up disrupting the learning experience for the entire classroom.

With HP Calculator Emulators, teachers can demonstrate complex calculation operations projected on a larger screen so the whole class can see. HP Calculator Emulators replicate the look and feel of an actual HP Calculator with the same skins, the same user interface, and the same feature set. This makes it easy for students to follow along on their own calculators. HP Calculator Emulators are able to maximize student engagement while minimizing the amount of time it takes to teach.

HP Calculator Emulators are available for HP’s business and financial calculators—the HP 10bII+, HP 12C, HP 12C Platinum, and HP 17bII+—and for HP’s advanced mathematics, scientific and engineering calculators—the HP Prime, HP 50g, and HP 35s.

**Features**

- Allows teachers to project calculator from a PC to the whole class to better explain keystrokes and mathematical concepts
- Same skin, UI, and feature set of physical calculator
- Available for HP Prime, HP 50g, HP 10bII+, HP 12C, HP 12C Platinum, HP 17bII+, HP 35s
- Free for educators at hp.com/go/calculatemulators.

**History of HP Calculators**

In the 1960s, HP recognized two opportunities. First, it might be possible to automate the instrumentation that HP was producing. Second, HP’s customer base were likely to buy a product that could replace the slide rules and adding machines that they were now using for computation. With this in mind, HP built the HP 9100 Desktop Scientific Calculator. The HP 9100 was a full-featured calculator that included not only standard “adding machine” functions, but also powerful capabilities to handle floating-point numbers, trigonometric functions, logarithms, exponentiation, and square roots. This new calculator was well received by the customer base, but William Hewlett saw additional opportunities if the desktop calculator could be made small enough to fit into his shirt pocket. He charged his engineers with this exact goal using the size of his shirt pocket as a guide. The result was the HP 35 calculator with functionality that was revolutionary for a pocket calculator at that time.
Professional development is important for all educators but especially for teachers. Teachers are on the “front line” of instruction and remain the most vital resource and success factor for student achievement. With the growing importance of technology in the classroom, teachers must expand their knowledge of technology.

In many states, the implementation of the Common Core standards has school districts scrambling to be able to comply with technology requirements. For many educators, changing the way they teach is as challenging as finding time to fit professional development into their already full schedules.

As part of our professional development portfolio, HP Education Services offers online courses aimed at unlimited participation and open access via the web. Designed for teachers who want to teach more effectively using the power of technology, these courses include Math Content Standards, Mathematical Practice, Focus on Reading, Writing, Presentation, and Publication.

**HP Online Course for Teachers Teaching with Technology 101**

Preparing America’s teachers for the Common Core State Standards and helping them maximize learning in their classrooms and beyond.

Professional development is important for all educators but especially for teachers. Teachers are on the “front line” of instruction and remain the most vital resource and success factor for student achievement. With the growing importance of technology in the classroom, teachers must expand their knowledge of technology.

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**HP Teaching with Technology**

To enable teachers to understand the impact of both technology and Common Core State Standards, we’ve built a comprehensive online course. This five-module course contains useful information and tools that teachers will be able to action immediately in their classrooms.

The content of the course is based on McREL International’s “Classroom Instruction that Works” research. HP is proud to partner with McREL to deliver this engaging and effective course.

Each unit contains a rich variety of learning objectives including videos, surveys, and activities. You’ll see teachers in action, listen to their ideas, and expand your knowledge of how to use technology to support instructional frameworks. This online course is offered to all educators at no cost.

**Developing skills for the 21st century teacher—anytime, anywhere**

In this course, teachers are guided through methods, strategies and tools which can help engage students and enable them to be more successful learners. As teachers work through the course, they will be asked to reflect on their own classroom environment, so that the training is immediately actionable at a local level.

HP created this free online course to empower our nation’s teachers to innovate and understand the impact of the Common Core State Standards in their schools and communities.

**Module 1**

Strategies for becoming a more effective teacher using technology

60 min

**Module 2**

Using the framework to implement the U.S. Common Core State Standards (CCSS)

60 min

**Module 3**

Using learning objectives to help students monitor their progress

60 min

**Module 4**

Using feedback to help students gauge their progress

60 min

**Module 5**

Getting the best from students: reinforcing effort and providing recognition

60 min

Start learning at hp.com/go/teachingwithtechnology
HP LIFE e-Learning

Entrepreneurs are the backbone of our global economy, but many lack the IT and business skills that are critical to turn good ideas into economic success.

At HP, we have a vision—called HP Living Progress—to leverage our people and innovations to create a better future. The HP LIFE (Learning Initiative for Entrepreneurs) e-Learning project helps us realize this vision by helping people, businesses, and economies solve society’s toughest challenges.

A free, cloud-based training program launched in 2012, HP LIFE e-Learning can be accessed directly by entrepreneurs and small-business owners around the world to help them gain real-life business and technology skills to start or grow their businesses in their own time, at their own pace. It is also a robust and highly adaptable open educational resource that enriches curriculum in classrooms, training centers, and other settings and facilitates participatory learning. HP LIFE e-Learning can be used as an additional resource in classrooms, as standalone training, as a homework resource, and as a gateway to a global community to help educators extend the depth of concepts presented and allow learners to achieve mastery of skills at their own pace by offering hands-on practice of relevant technology skills.

Features

- Twenty-two self-paced interactive modules focused on core business competencies in the areas of Finance, Marketing, Operations, Communication, and special topics such as Social Entrepreneurship and Energy Efficiency.
- Begin with a scenario of an entrepreneur facing a business challenge that leads to practical, interactive exercises around both key business skills as well as associated technology skills.
- An online community that connects entrepreneurs and educators from all over the world.
- Links to other relevant online resources, curated by HP LIFE staff.
- Currently available in English, Spanish, French, Portuguese, and Arabic.
- The courses are continuously updated and improved based on user feedback. Languages and support are improvement on a consistent basis.
- HP LIFE uses HP public cloud technology to reach students around the world. More than 180,000 students have registered from over 200 countries.
- Currently collaborates with EDC (Education Development Center, Inc), USAID (United States Agency for International Development), UNIDO (United Nations Industrial Development Organization), and NACCE (National Association for Community College Entrepreneurship) to create, enrich, and disseminate a high-quality, globally accessible e-Learning program.
- HP LIFE includes a dedicated Educators Section which supports the effective use of the program in formal and informal educational settings.
- HP LIFE curriculum was provided to over 1.5 million students (future entrepreneurs) in Uttar Pradesh, India, where internet access is not pervasive.

Visit life-global.org/en

“The units in HP LIFE speak to the students in a manner in which they listen and respond. This past week, I asked one class to write down their response to the HP LIFE units in general...my favorite: ‘they make you think.’”

- Educator, USA
HP Catalyst Initiative

Professional learning network for teachers.

“The NMC is thrilled to assume leadership of the Academy and is tremendously thankful for HP’s partnership and support every step of the way. The forward-thinking legacy brought to the project by the founding partners will continuously inspire the NMC Academy to mature and evolve. The goal has always been experimental—to try new things that no one is doing yet in order to expand access to high-quality training for different types of audiences and to make student learning more engaging and relevant.”

— Dr. Larry Johnson, CEO, New Media Consortium

The HP Catalyst Initiative is a global, student-centered approach to transforming science, technology, engineering, and math education. Between 2010 and 2012, HP funded grants supporting 56 organizations in 15 countries. Launched in 2013 as part of the HP Catalyst Initiative, the HP Catalyst Academy provides busy teachers and other learning professionals with the opportunity to expand their online knowledge and skills. The academy is a collaborative effort between HP, the International Society for Technology in Education (ISTE.org), the New Media Consortium (NMC.org), and more than 135 countries have enrolled in the Academy website. Recently renamed in response to HP selection of New Media Consortium (NMC) to assume leadership of the effort, the NMC Academy plans to continue the formative work of the original HP Catalyst Academy by looking at new ways to innovate professional development for educators.

To learn more about the NMC Academy, go to academy.nmc.org

Since its inception, over 3,500 educators in more than 135 countries have enrolled in the Academy and 6,500 users have registered on the Academy website. The academy strives to explore new innovations in professional development and recognition for educators. This investment has produced a network of 36 mini courses offering hands-on experience for thousands of STEM(+1) educators.

Free available classes

- Addressing Stereotypical Threats in STEM(+1) Classrooms to Create a Safe Space for Students
  The Blake School
- Analyzing Sporting Performance: a STEM(+) Toolkit
  STEM Team East
- App Design: Help Your Students Change Their World
  Apps for Good
- Applications of Social Media for STEM(+) Teaching
  The New Media Consortium
- Arctic Connections: Exploring Ecosystems Around the World
  Polar Bears International
- Blending Basic Computer Skills in Science Curriculums
  Aga szy International Foundation
- Challenge-Based Learning on Climate Change: A Mini-MODC
  Taking IT Global
- How to Use GeoGebra and Candy Crush to Teach Mathematics
  Universidad de Palermo
- Computational Thinking in K-12 Classrooms
  Longwood Institute
- Connecting Students to their World
  Reach the World
- Crash Course on Gaming and Learning
  Pepperdine University
- Creating and Empowering Citizen Scientists with Mobile Devices
  Stibo3Learn
- Creating Social Entrepreneurs Using the Design Cycle Engineering Model
  Saint Andrew’s School
- Cultivating Creativity and Innovation
  Learning Links Foundation
- Deforestation: Monitoring Rainforests from Your Classroom Using Technology
  Taking IT Global Youth Association
- Developing STEM(+) Augmented Reality Mobile Apps
  Universidad Nacional de Educacion a Distancia
- Digitally Curious: Leveraging Technology in Mathematics
  Good Shepherd Episcopal School
- STEM(+) Mobile App Design—Without Programming
  CSEV—Centro Superior para la Ensenanza Virtual
- eBook Hack-a-thon: Build Once, Learn Anywhere
  Digital Wish
- Everyone in the Pool! Collaborative Data Analysis in the Science Classroom
  California State University, Northridge
- Exploring STEM Competencies Through ePortfolios
  Empire State College SUNY
- Facilitating Intercultural Digital Exchanges
  Take IT Global Youth Association
- Flipping Your Class: An Analytics-Based Approach
  Carnegie Mellon University
- Game Design for Learning
  Learning Games Network
- Geospatial Tech for STEM(+) Learning
  Del Mar College
- Rural Problems and STEM(+) Solutions
  Learning Links Foundation
- InkSurvey: Graphical Response Tool for Real-Time Formative Assessment
  Colorado School of Mines
- Inquiry-based Science Teaching and Learning
  University of the Western Cape
- Make/Hack/Play Together
  Peer 2 Peer University Inc.
- Pedagogy 3.0: Planning Enriching Digital Experiences
  University of Bristol
- Polar Bears in a Changing Climate
  Polar Bears International
- Remote Labs
  Northwestern University
- STEMMFAE Studio: A Teachers’ Lounge for Learning and Making
  Fab Foundation
- The Sound of Science: Digital Audio Creation and STEM(+)
  New Jersey City University
- Thinking Like an Engineer: Teaching and Learning Pre-College Engineering
  University of Southern California

Flipping Your Class: An Analytics-Based Approach
Carnegie Mellon University
Game Design for Learning
Learning Games Network
Geospatial Tech for STEM(+) Learning
Del Mar College
Rural Problems and STEM(+) Solutions
Learning Links Foundation
InkSurvey: Graphical Response Tool for Real-Time Formative Assessment
Colorado School of Mines
Inquiry-based Science Teaching and Learning
University of the Western Cape
Make/Hack/Play Together
Peer 2 Peer University Inc.
Pedagogy 3.0: Planning Enriching Digital Experiences
University of Bristol
Polar Bears in a Changing Climate
Polar Bears International
Remote Labs
Northwestern University
STEFMAE Studio: A Teachers’ Lounge for Learning and Making
Fab Foundation
The Sound of Science: Digital Audio Creation and STEM(+)
New Jersey City University
Thinking Like an Engineer: Teaching and Learning Pre-College Engineering
University of Southern California
Common Core Standard Initiative: What we need to know

Common Core Standards is about teaching 21st century skills so Americans can continue to compete in the global workforce. By using computers, multimedia, and information processing tools to engage in relevant, student-centric, and personalized learning, students learn to thrive in technology-based, digital environments in their real lives. Using Common Core State Standards, students engage in active learning experiences that require them to use technology to create solutions or solve problems using information as a means to understand concepts more fully.

If you are concerned about your Common Core Standards readiness, you’re not alone. Educators and administrators have expressed valid concerns about implementation of the technology needed to support Common Core requirements. Common Core provides unique challenges for education organizations needing to comply with increased regulations with decreasing budgets and limited resources. School districts in 42 U.S. states have until Spring 2015 to implement the technology needed to move toward the extensive use of digital content, plan and deliver sustainable, manageable 1:1 programs, test large numbers of students online and simultaneously every year as a means of progress assessment, and deal with the security, network bandwidth, and infrastructure issues mandated by compliance with the initiative. HP can help your school district answer the hard questions you must ask to ensure you’re ready for Common Core.

• Which hardware devices are suitable?
• What are the electronic testing best practices?
• What common electronic test-taking pitfalls should I avoid?
• How can I ensure we have enough network connections and bandwidth for online test taking?
• How do I know the best network scheme for my school district to deploy?

HP offers one-stop shopping for schools implementing Common Core State Standards and 1:1 initiatives. HP Converged Infrastructure offers the perfect foundation for serving up applications and tools and storing data and content. HP can help you maximize your investment in the cloud. With HP Networking Solutions as a cornerstone, your school district can lower their total cost of ownership while improving your operational agility with more secure, high-performance connectivity.

HP offers a wide variety of reliable, world-class PC and printer hardware and software that manages to make it easier. If, despite significant effort to prepare for Common Core, you find your teachers and students are not fully prepared for this new type of learning requirement, contact HP and find out how we’re “making it matter” in education by using technology to teach in ways that result in more meaningful outcomes. Make HP your Common Core partner and you can be prepared for success today and tomorrow.
Financing solutions for education

Education technology is an operating expense.

Our experts can help you transform education with a technology refresh strategy that drives true learning.

Did you know?

In 2012, HP Technology Renewal Centers around the world:
- Processed over 2.8 million devices.
- Processed over 1.5 million PC products.
- Wiped data from over 800,000 storage units.
- Safely and responsibly recycled 11 million pounds of material.
- Processed over 2.8 million devices.
- Processed over 1.5 million PC products.
- Wiped data from over 800,000 storage units.
- Safely and responsibly recycled 11 million pounds of material.

A technology refresh strategy that leverages HP Asset Recovery can help you transition to new equipment to overcome the technology challenges in the classroom, while enabling you to remove older technology through an environmentally friendly technology refresh process that also ensures the safety of your data. The asset recovery experts at our HP Technology Renewal Centers can help ensure your technology refresh strategy makes the most sense for your school’s or district’s needs, so you can maintain total access to the technology that can drive true learning and meaningful outcomes for your students.

Transform education with a technology refresh

Digital learning is an institutional practice that is effectively using technology to strengthen the student learning experience. Digital learning encompasses a wide spectrum of tools and practices, including online and formative assessments, increased focus and quality of teaching resources, reevaluating the use of time, online content and courses, applications of technology in classrooms and school buildings, adaptive software for students with special needs, learning platforms, participation in professional communities of practice, access to high-level and challenging content and instruction, and many other advancements that technology provides to teaching and learning.

It’s not just innovative technology that is driving digital learning. It’s your students’ access to it. How effective can digital learning be if your students are working with outdated laptops, desktops, and the like?

Find out how Osseo Area School District leveraged an asset recovery services strategy to help improve their students access to innovative technology in the classroom:

“In accordance with our Technology Plan to provide effective computing technology for our students in the Osseo Area School District, we upgraded over 3,700 desktops and laptops that were outdated and soon-to-be obsolete. It was a monumental challenge to dispose of the old equipment in an environmentally safe way within established regulations. HP Asset Recovery was able to unlock the remaining value of our equipment, ensure all proprietary data was wiped off the computers, and provide certification of the disposal process. Because HP Financial Services ensured that the technology was recycled in accordance with environmental guidelines, and provided the pickup transportation services, this challenge was quickly overcome. HPFS’s made this a very positive experience.”


Flexibility to finance on your terms

Every educational institution is unique, which is why you need an IT investment strategy with the flexibility to meet your school’s or district’s specific needs. Whether you are outfitting a single classroom or installing a campus-wide network, our flexible services and capability can help support your entire IT life cycle, so you can continue to transform education for your students today and tomorrow.

Some of the benefits of working with HP Financial Services include:

Ease
- We finance any technology for schools: hardware, software and services.

Flexibility
- Customize your solution with upgrades, rentals, deferral programs, technology refresh, and monthly payment programs.

Expertise
- Dedicated expert team with experience in the unique needs, terms and conditions of public sector purchasers.

Our commitment to you

You are at the heart of everything we do, which is why over 75% of our business is with repeat customers. We work with you and are committed to providing a clear standard for what you can expect from us, providing transparency into the process and solutions we deliver. Our service commitment to you means a customized strategy for your schools, with the expertise to develop, drive, and fine-tune your plans as your education technology strategy evolves.
HP technology for learning
HP Tablets

From the classroom to the cloud

Take learning beyond the classroom with HP Tablets

Mobile enough to take anywhere with the performance and battery life to keep you learning when you get there.

Tablets bring a whole new level of interactivity to learning and increase student engagement at an affordable price. Intuitive touch-screen technology and an enjoyable interface guide students down a fast, short curve to learning. Light and portable with a school day’s worth of battery life, they enable learning in the classroom and beyond.

Why tablets for education?

Tablets offer cost-effective, easy access to online collaboration, productivity, and learning tools at the simple touch of a finger. Students can take them anywhere without overloading their backpacks and still stay connected with standard Wi-Fi on all models, and optional 3G or 4G connectivity on select models. The perfect hardware for digital books and other electronic content, tablets are transforming the way students prefer to read, watch, listen and learn.

Tablet considerations

• In 21st century schools, students should be creating as much content as they consume. Schools should consider hybrid devices and keyboard accessories to enable higher-order skills development.
• All HP Microsoft Windows-based tablets offer Windows 8.1, not Windows RT, so your students and teachers can get the best of Flash-based content, apps for learning and IT management tools.
• The all-new Google Play Store for Education allows schools with Android tablets to purchase and provision thousands of apps for education, including Common Core-aligned activities.
• Screen size and weight should be appropriate for schools serving a variety of users.
HP Tablets

Android™

Android offers state-of-the-art provisioning and device management, while the new Google Play for Education Store provides thousands of engaging mobile apps for learning.

HP Slate7 Extreme

Excite your students with a beautiful multimedia experience. Rich HD color, vibrant photography, and the booming, front firing speakers of NVIDIA® PureAudio™ bring your teaching to life in a whole new way.

• Android™ 4.2.2 Jelly Bean operating system
• NVIDIA® Tegra® 4 A15 Quad-Core (1.8 GHz)
• 7" diagonal HD 7 wide viewing angle display
• Dimensions: 200 mm x 120 mm x 9.4 mm
• Weight: 11.3 oz (320 g)
• Video playback up to 10.5 hours®

HP Slate7 Plus

An affordable education tool—thin and light enough for students to take anywhere with the performance and battery life to keep them learning when they get there. Add in fast web browsing, HD resolution, and enhanced multimedia to make an impact in everything you teach them.

• Android™ 4.2.2 Jelly Bean operating system
• NVIDIA® Tegra® 3 A9 Quad-Core Processor® (1.3 GHz)
• Amazing views from every angle on a 7" diagonal screen
• Dimensions: 194.7 mm x 122.7 mm x 10.7 mm
• Weight: 12.1 oz (342 g)
• Video playback up to 7.5 hours®

HP Slate7 HD

Meet the perfect collaboration tool for students on the go—25 GB of storage from Box® lets them manage files easily from anywhere they have internet access, while Miracast® or Skype™ lets them share ideas with students around the globe.

• Android™ 4.2.2 Jelly Bean operating system
• Marvell® SOC PXA986 Dual-Core Processor® (1.2 GHz)
• Amazing views from every angle on this 7" diagonal HD screen
• Dimensions: 200 mm x 120 mm x 9.4 mm
• Weight: 11.5 oz (325 g)
• Video playback up to 7 hours®

HP Slate10 HD

Meet the larger version of the perfect collaboration tool for students on the go—25 GB of storage from Box® lets them manage files easily from anywhere they have internet access, while Miracast® or Skype™ lets them share ideas with students around the globe.

• Android™ 4.2.2 Jelly Bean operating system
• Marvell® SOC PXA986 Dual-Core Processor® (1.2 GHz)
• An HD display of 1280 x 800 provides crisp ultra-wide views on a sharp 10" diagonal screen
• Dimensions: 259 mm x 178 mm x 9.7 mm
• Weight: 22 oz (623 g)
• Video playback up to 10 hours®
HP Tablets

Windows 8.1

The power of Windows is now at your fingertips...literally. Combining the best of desktop and mobile operating systems, Windows on tablets have evolved to provide an incredible platform for teaching, learning and assessment.

HP ElitePad 1000 G2

The ultimate Windows 8.1 tablet combines a full HD, durable, outdoor-viewable display with next-generation performance. Weighing less than 1.5 lbs and accepting pen, touch or voice inputs, the ElitePad 1000 G2 provides the performance and flexibility to transform the way you teach, learn, and run your school system.

- Windows 8.1 operating system
- Intel® Z3795 Atom™ Quad-Core Processor
- 10.1” diagonal WUXGA wide-viewing angle outdoor display (1920 x 1200) with multi-touch capacitive digitizer, durable, Corning® Gorilla® Glass 3
- Dimensions: 4.83 in x 5.34 in x 2.24 in (122.8 mm x 135.7 mm x 57 mm)
- Weight: 1.48 lb (670 g)

HP Omni10

The HP Omni10 tablet provides an affordable Windows 8.1 tablet experience to students and teachers. Using cloud technology and Windows 365, student can collaborate with their peers and teachers from wherever they learn best.

- Windows 8.1 operating system
- With Intel® Atom™_ Z3000 series, Quad-Core Processor of 1.46 GHz (normal mode) or 2.4 GHz (turbo mode), you have the speed of light in your hands
- Stunning 10.1” diagonal HD screen with multitouch, ultra-wide viewing angle 1920 x 1200 display makes web browsing and content viewing a better experience
- Dimensions: 259.6 mm x 181.8 mm x 9.9 mm
- Weight: 23 oz (652 g)
- Video playback up to 8.5 hours

HP Tablets

Windows 8.1

The power of Windows is now at your fingertips...literally. Combining the best of desktop and mobile operating systems, Windows on tablets have evolved to provide an incredible platform for teaching, learning and assessment.
Why notebooks for education?

Notebook PCs allow students to create content, complete assignments and produce papers, presentations, videos, podcasts and much more. These workhorse machines are also widely compatible with classroom technology like projectors, printers and interactive whiteboards. The mainstay of education for the past 3 decades, notebook PCs have remained relevant in education, even in an increasingly mobile world.

Convertibles have evolved into a jack-of-all-trades technology for education. Want a tablet to monitor a class or manipulate an atomic model? No problem. Need a real keyboard to write a 10-page paper on Nero? No problem. Want to switch on the fly from capturing videos, photos and audio to editing the content? Sure. Convertibles have a great potential to change the way technology is used in education. These flexible designs immediately adjust to how you teach, learn and create best.

Notebook and Convertible considerations:

• Personal: Notebooks and Convertibles enable equitable, personalized learning. When each student has her own device, she can access education content 24/7 and maintain an equal playing field with peer students, regardless of income.

• Mobile: Notebooks and Convertibles are a perfect fit for today’s nomadic students. Students can create content, communicate and participate from just about anywhere.

• Green: Notebooks and Convertibles consume much less power than traditional desktops in schools, even those with modern flat-panel monitors.

HP Notebooks and Convertibles

Education is not one size fits all. Pick the perfect learning device for your school’s environment.

Bringing instruction and content creation to students since 1982

Create, edit and share content on the most deployed technology device in the history of education: the notebook PC. Get the best of both worlds through HP’s innovative new line of convertibles.
HP 210/215 Notebook

Packed with processing power and up to eight hours of battery life, these small yet powerful notebooks are ideal for students on the move. With a starting weight of just 3.32 lbs., these notebooks won't weigh you down. And with HP 3D Driveguard sensing when your computer moves and hard drive to prevent data loss.

Access

The HP 210/215 Notebook is affordably priced for schools. It includes features to help increase student engagement and offers a versatile standard that can work for every discipline from math to english.

Learning

One of the key Learning benefits of this affordable notebook is access to Adobe Flash-based curriculum and content. With the 210/215 Notebook, students and teachers can leverage the substantial Flash resources available on the web, unlike most mobile platforms.

See it. Hear it. Touch it.

Create an immersive learning environment that appeals to every learning style with a multisensory experience enabled by the advanced features of the HP 210/215 G1 Notebooks. Visually stunning graphics on an 11.6-inch diagonal HD display catches student attention. Built-in DTS Sound on dual speakers means rich audio that ensures they're listening. An optional touch-screen experience or touchpad with multitouch gesture supports easy-to-master touch navigation and extends technology to the tips of their fingers. Add extensive optional wireless solutions and the HP TrueVision HD Webcam and they can learn from a NASA astronaut in space or collaborate with students around the globe.

Learning on the move

Designed for mobility, the HP 210/215 G1 Notebooks give you up to a school day of battery life and an easily replaceable battery in case you’re studying late. The optional HP Notebook Battery Charging Stations charge multiple backup and secondary batteries to help keep faculty, students, and staff up and running. Data stays protected from accidental bumps when the HP 3D Driveguard locks down the hard drive when it senses movement of the notebook.

Lead by example

HP is committed to protecting the environment. The HP 210/215 G1 Notebook PCs incorporate select materials and feature configurations that help reduce their impact on the environment. Configurations identified by the ENERGY STAR® logo are qualified under the current ENERGY STAR® specifications. EPEAT® registration varies by country—see epeat.net for registration status by country; they are EPEAT® Silver registered in the U.S.

Student-centric learning

Bring personalized learning to your school by equipping every student with their own notebook. Advanced features and Windows software brings the power of the web into the classroom and allows them to share what they learn with the world.

Teacher-centric instruction

Create an immersive learning environment with a multisensory experience that can increase student engagement. Professional development is available to show you how to harness the power of technology in your classroom.

Education compatibility matrix

<table>
<thead>
<tr>
<th>Access</th>
<th>Wi-Fi, Notebook Cart, Battery Charging Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learning</td>
<td>HP Classroom Manager, HP Calculator Emulators</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>Windows 8</td>
</tr>
</tbody>
</table>
HP Classmate Notebook PC

The exciting new HP Classmate Notebook PC was designed for education. It pairs the legendary HP brand, support, and deployment with tools for learning, exploration and collaboration. The HP Classmate Notebook PC offers access to e-Learning for schools in all communities, even those with limited resources.

Access

Leveling the playing field for all students, this affordable and resilient clamshell notebook provides technology to students and their families whom would otherwise not have access.

Learning

Instead of simply distributing the HP Classmate Notebook PCs to students, schools can optimize how they increase engagement and achievement by offering tailored professional development and apps for learning. Through the effective use of technology in schools, curricula can be transformed to cater to 21st-century learners.

Durable

With an increase of 1:1 e-Learning deployments, there is a need to ensure that notebooks are more rugged to meet the usage patterns of teachers and students. The purpose-built Classmate PC is designed with rugged features build into the device—there is no need for additional carrying cases. Water resistant keyboards and trackpads are standard, and the device is tested to survive a 70cm drop. These features combing to ensure that the device will continue to provide next-generation learning experiences even as students carry their Classmate Notebooks from class to class and to/from home.

The right balance of power and value

The HP Classmate Notebook PC provides school districts with a powerful, yet affordable notebook PC. Created exclusively for education, this device has been optimized for classroom use.

The HP Classmate provides the right balance of battery life, solid construction, performance and multimedia features. The HD webcam, digital microphone, speakers and 10.1" HD display allow students to be mobile creators and collaborators with no compromises.

Student-friendly computing solution

Start-up quickly, switch between applications in a flash, and manage files more easily with the quick and fluid Windows 8.1. With students being more mobile than ever the HP Classmate Notebook PC allows students to work in almost any conditions with the student-friendly antiglare screen.

Protecting students from certain online sites and downloads with the right security considerations is increasingly important. The setting of permissions and parameters around safe searches is possible with the HP Classmate Notebook PC.

Education compatibility matrix

<table>
<thead>
<tr>
<th>Access</th>
<th>Wi-Fi, Notebook Cart, Chromebook Management Console</th>
</tr>
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<tbody>
<tr>
<td>Learning</td>
<td>HP Classroom Manager, HP Calculator Emulators</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>Windows 8, Ubuntu</td>
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</tbody>
</table>
HP Pro X2 410 Convertible

A smart investment for education, this detachable hybrid tablet provides the best of both worlds—the mobility of a tablet and the enhanced productivity of a notebook. Students stay productive with a full-size keyboard that easily detaches for the switch to an on-the-go tablet.

Access
Offering the mobility of a tablet and the productivity of a notebook, the HP Pro x2 410 Convertible provides students with the best of both worlds thanks to its durable, mechanical hinge design.

Learning
The HP Pro x2 410 Convertible operating system, Windows 8 Pro, offers both the advantage of working with Windows software and the added benefit of allowing access to flash media content on the internet, which often powers much of the graphic-rich content and a lot of the free online content.

The power to perform
The HP Pro x2 410 Convertible can keep up with your most demanding classes thanks to the speed and responsiveness of 4th generation Intel® Core™ i3/i5 processors and lightning-fast solid-state drives that work through tasks without stops or stalls. Advanced touch technology lets students interact and work in a more engaging way with multitouch gestures. Using quick and fluid Windows 8, you can start up and switch applications by touch. The detachable keyboard base houses an extra battery to recharge the HP Pro x2 410 Convertible when it isn’t being used in tablet mode, enhancing the long battery life.

Engage their senses
Designed for a rich and immersive audio experience, the HP Pro x2 410 Convertible features a 11.6-inch diagonal multitouch HD display and Beats Audio™ for a difference you can see and hear. Students will enjoy clear, bright online collaboration thanks to front and rear facing 1080p dual webcams that capture all the details with vibrant clarity, even in low light. Connect wirelessly to WiDi-ready devices and sync photos and music with HP Connected Photo and HP Connected Music. The HP Pro x2 410 Convertible runs quietly, with no noisy hardware or unsightly vents, thanks to an innovative design that eliminates the fan.

Backed by HP
With HP, you’ll enjoy always-on self-help support built right into the PC, included for the life of the PC. You can relax knowing you’re backed by expert support when you extend and expand beyond your standard warranty with optional HP Care Packs. HP Care Pack with Accidental Damage Protection helps your school avoid out-of-pocket repair or replacement costs and delivers service right to your door. The embedded Trusted Platform Module 1.2 (TPM) provides hardware-based encryption keys to help secure your data, email, and user credentials.

Student-centric learning
With Windows 8, students explore the web’s graphic-rich content by touch and then attach the full-size keyboard and Windows software to create a report about it. The HP Pro x2 410 Convertible dual HD webcams and Beats Audio take the project a step further and let them share it with the world.

Teacher-centric instruction
You’ll always have control when you use HP Classroom Manager to easily wrangle a whole classroom of HP Pro x2 410 Convertibles. HP offers professional development to help you best harness this technology in your classroom.

Education compatibility matrix

<table>
<thead>
<tr>
<th>Access</th>
<th>Wi-Fi, WiDi, Notebook Cart</th>
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</thead>
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<td>HP Classroom Manager, HP Calculator Emulators</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>Windows 8</td>
</tr>
</tbody>
</table>

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HP ProBook 650 Notebook

For the classroom and beyond, a durable HP ProBook 650 is thin, light, and full of productivity features to make your class work faster and easier. Reliable security solutions help keep your assignments out of the wrong hands.

Access

- Thin, light, and full of productivity and security features, the HP ProBook 650 offers students a durable notebook loaded with the tools they need to succeed.

Learning

- The HP ProBook 650 Windows operating system works with familiar Windows software and allows access to the free, graphic-rich, flash media content on the internet.

Thinner, tougher taskmaster

The all new HP ProBook 650 Notebook features a thinner, lighter soft-touch design that looks and feels the way you want and, thanks to the durable four-step paint process, will stay that way. Create a desktop experience on your ProBook with various docking options including the HP 120 W Advanced Docking Station and the HP 90 W Docking Station promising the latest-generation technology your students deserve at their desk or on the go. The HP ProBook 650 even protects your existing IT investments with support for existing legacy features such as an optical drive, optional serial ports, VGA and RJ45 connectors.

Immersive learning

Experience great video and audio performance with the latest Intel® 4th generation processors, full-HD display panels, AMD 1GDDR5 discrete graphics with native DisplayPort 1.2, and top mounted speakers. Optimized for communication, the HP ProBook 650 bridges the miles with Microsoft Lync and powerful connectivity options including 4G WWAN, WiFi, HP Wireless Hotspot, and Bluetooth®. With HP Classroom Manager software, it’s easy for the teacher to control the learning environment.

Security you can count on

- Protect data, devices, and identities with HP Client Security. Keep sensitive information in safe hands with HP Trust Circles ensuring that only approved contacts can access critical files. Data stays protected from accidental bumps when the HP 3D Driveguard® locks down the hard drive upon sensing movement of the notebook. Designed to help prevent data loss and reduce downtime, HP BIOS Protection offers enhanced protection against virus attacks to the BIOS and other security threats. Supported by industry-standard HP Client Management Solutions such as optional LANDesk and Intel® vPro™ technology, it’s all easy to deploy and fully manageable.

Backed by HP

With HP, you’ll enjoy always-on self-help support built right into the PC, included for the life of the PC. You can relax knowing you’re backed by expert support when you extend and expand beyond your standard warranty with optional HP Care Packs. With HP Care Pack with Accidental Damage Protection helps your school avoid out-of-pocket repair or replacement costs and delivers service right to your door. The embedded Trusted Platform Module 1.2 (TPM) provides hardware-based encryption keys to help secure your data, email, and user credentials.

Student-centric learning

The latest Intel® 4th generation processors, full-HD display panels, AMD 1GDDR5 discrete graphics with native DisplayPort 1.2, and top mounted speakers increase engagement with great video and audio performance. Thinner and lighter weight, the HP ProBook 650 helps students learn on-the-go without being weighed down.

Teacher-centric instruction

With HP Classroom Manager software, it’s easy for the teacher to control the learning environment. HP Teaching with Technology online learning can help you maximize the technology in your classroom.

Education compatibility matrix

<table>
<thead>
<tr>
<th>Access</th>
<th>Wi-Fi, WiDi, Notebook Cart</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learning</td>
<td>HP Classroom Manager, HP Calculator Emulators</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>Windows 8</td>
</tr>
</tbody>
</table>
HP EliteBook Folio 1040 G1

Don’t let the streamlined profile fool you—the HP EliteBook Folio 1040 G1 is power-packed with a sensible set of effective features for student use. The solid-state drive and precision-machined aluminum body offer durability that’s essential for the school environment while the long-lasting battery offers all-day endurance.

**Access**

Completing projects, accessing resources, and connecting are all easier with the thinnest EliteBook ever. This ultra-thin and ultra-modern HP Notebook offers secure connectivity in a streamlined body with power that lasts through the day.

**Learning**

The latest technology—in the form of the ultralight, ultrasleek Ultrabook™—empowers students, teachers and administrators with an enterprise-class device for teaching, learning and administration.

**Carry less, do more**

With a weight up to 7% lighter and a profile up to 16% thinner than previous generations, the EliteBook Folio 1040 G1 is highly mobile, yet works hard all day long. It comes with three USB ports, and can be configured for wireless connection to accessories and printers for hassle-free project completion.

**Security in motion**

The EliteBook Folio 1040 protects data around the clock with HP SureStart (the only self-healing technology solution that protects against malware attacks on the BIOS) and HP Trust Circles, which limits data access to trusted contacts while encouraging sharing on group projects. The fingerprint reader and Smart Card Reader keep student identities secure, while the HP Drive Encryption keeps data safe.

**Intuitive interaction**

Students can use their accustomed touch-screen motions with ForcePad™, use the webcam to collaborate on group projects, and take advantage of high-end connectivity features to stream educational video content. The EliteBook Folio 1040 is also highly responsive, using the latest 4th generation Intel® Core™ processor for speedy access to its many useful functions and apps.

**Student-centric learning**

Forget about spending precious time learning a new system—the EliteBook Folio 1040 seamlessly unites the latest functional capabilities with the familiar Windows OS, so teachers can spend less time becoming familiar with software and more time on preparing students for the future.

**Teacher-centric instruction**

The EliteBook 1040 Ultrabook™ combines the computational power for the toughest assignments and the portability of an extremely thin and light learning device.

**Education compatibility matrix**

<table>
<thead>
<tr>
<th>Access</th>
<th>Wi-Fi, Education Notebook Cart, Bluetooth, HP Web-Enabled Printers, HP Ultraslim Docking Station, HP Wireless Keyboard, HP Wireless Mouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learning</td>
<td>HP Classroom Manager, HP Calculator Emulators</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>Windows 8</td>
</tr>
</tbody>
</table>
HP EliteBook Revolve 820

This multifunctional notebook gives students the ability to customize their learning experience through touch, typing, and connecting. Rotate the screen to create a mobile tablet, then rotate again to access the keyboard and mouse. However and wherever your students learn best, the HP EliteBook Revolve adapts to provide the most engaging and interactive education platform.

Access

The EliteBook Revolve 820 brings today’s best educational technology to students in a powerful fusion of simplicity and function. The speed of a touch screen, the productivity of a traditional keyboard, and the safety of hassle-free HP security applications all combine to create a resource used and trusted by schools all over the world.

Learning

This hybrid notebook-to-tablet system is perfect for students who learn best with a variety of instructional methods. Students can easily adjust the screen to work together on a team project or watch an educational video segment together. The EliteBook Revolve 820 also allows students to adapt its use by easily adjusting the screen orientation, brightness, and other user-centric settings.

Don’t choose—rotate!

With the functionality of a notebook and the ease-of-use of a tablet, the EliteBook Revolve 820 offers the best of both worlds. A simple rotation of the screen lets students switch easily between total touch-screen use and traditional keyboard access.

Startup is a snap

Intel® Rapid Start creates near-instant startup times, so students can get right to learning. Plus, all the most vital applications they’ll need to complete assignments and learn new concepts are right at their fingertips, whether they use the touch screen, a pointing device, or the keyboard.

Hard-working components—simplified and enhanced!

The all-magnesium chassis houses a spill-resistant, backlit keyboard. The pen is slimmer and more responsive. And, it’s all designed to be easier on the environment with low-halogen21 lighting and scratch-resistant Corning® Gorilla® Glass 3 for the display, 90% recyclable materials, and efficient 45 W power adapters.

Student-centric learning

Adaptability and accessibility are key to enhancing students’ ability to use technology to absorb information and complete assignments. The EliteBook Revolve 820 delivers amazing options for tailoring interaction to a student’s preferences—all while delivering effective HP technology with a familiar Windows OS.

Teacher-centric instruction

HP Classroom Manager is simple to deploy and use, allowing teachers to monitor student use without sacrificing classroom instruction time. The built-in security features of HP Trust Circles24 eliminate the need to worry about privacy breaches and ensure that only approved contacts can access files.

Education compatibility matrix

<table>
<thead>
<tr>
<th>Access</th>
<th>Wi-Fi, Education Notebook Cart, Bluetooth, HP Web-Enabled Printers, HP Ultraslim Docking Station, HP Wireless Mouse, Atmel Active maXStylus</th>
</tr>
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<tr>
<td>Learning</td>
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<tr>
<td>Operating Systems</td>
<td>Windows® 8</td>
</tr>
</tbody>
</table>
HP Chromebook 11 and 14 for Education

The new HP Chromebook 11 and 14 for education combines essential HP innovations and support with Google’s Chrome OS. More students can access education content and apps than ever with these simple-to-deploy and simple-to-manage Chromebooks.

**Access**
With a low purchase cost—and an even lower management cost—HP Chromebooks are easy to deploy to students and teachers.

**Learning**
With an ever-expanding collection of apps for your classroom, Chrome™ OS provides new ways to learn, collaborate, and grow.

**Easy to deploy**
More students, faster
HP provides the ultimate Chromebook experience. The HP Chromebooks 11 and 14 are designed for schools from the ground up. From installation to support, HP provides a robust platform for your school’s own education revolution. Provide your students and teachers an innovative, web-based communication and collaboration platform that is free to all education accounts with no limit to the number of users you can provision. Chrome devices are optimized for the web’s vast educational resources. Integrate rich content into lessons, inspire collaboration, and encourage students to create and share their own content with the world. Chrome devices deliver it all without lengthy startup times or tedious training. They’re a simple, scalable, and affordable way to put technology into the hands of more students and teachers.

**Easier to manage**
Chrome devices streamline the hours that IT administrators spend managing computers. The Chrome operating system seamlessly improves over time and the available web-based management console lets administrators set up and manage users, apps, and policies across an entire fleet of Chrome devices, even if the devices are distributed across many classrooms.

The ease of deploying HP Chromebooks is revolutionary: schools can be up and running within a few hours! Google™ Apps for Education is a free suite of online collaboration and communication tools including email, shared calendars, documents, sites, and more. It includes many critical security features specifically designed to keep data safe, secure, and in your control.

**Better with HP**
Learning and creativity are unleashed by combining Google and HP. The new HP Chromebooks 11 and 14 include a brilliant IPS 11.6-inch platform display with wide viewing angle for collaboration. It also includes long battery life, thanks to Google optimizations and HP technology. HP also offers up to a three-year commercial limited warranty so schools can have peace of mind when distributing the HP Chromebooks 11 and 14 to students and teachers.

**Student-centric learning**
By equipping every student with their own device and ID, schools can democratize and personalize learning. Students can explore the web and all of its resources to collect, review, and analyze data. Then, they can use Google Apps for Education to create and share their hypotheses and findings with their peers, their teachers—and even their parents!

**Teacher-centric instruction**
From running formative assessments using Google Forms to inviting guest lecturers to a Google Hangout, teachers are more empowered than ever to lead their students to knowledge and achievement. Professional development is available to empower and enable teaching professionals to learn how best to harness technology in—and out of—the classroom.

Education compatibility matrix

<table>
<thead>
<tr>
<th>Access</th>
<th>Wi-Fi, Notebook Cart, Chromebook Management Console, UltraSlim Docking station, Bluetooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learning</td>
<td>HP Classroom Manager, HP Calculator Emulators</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>Chrome</td>
</tr>
</tbody>
</table>
Why desktops for education?

Typically composed of more powerful components, desktop PCs are a good choice if your technology is frequently used to work with large graphics, video files, or other demanding applications or software. Desktop PCs offer the obvious advantage of larger screen sizes and even multiple-screen capability, are typically easier to centrally manage, and are less prone to breakage or loss.

When it comes to upgrading your computer, desktops can go beyond just adding more memory, to better video cards, more hard drives, bigger displays, and even new components. Desktop computers are often a lot easier to service because they typically involve just removing a side panel to gain access to the CPU motherboard. Although these tasks are not recommended for the average classroom teacher, if the display, keyboard, or mouse fails, they can be easily replaced without technical assistance.

Desktop considerations

- Paper lesson plans don’t factor in technology so think through how students will use desktop PCs.
- Teacher training is critical to ensure you’re getting the most out of your technology purchase.
- A technical support plan is important to ensure educators have the technical assistance they need to keep them focused on teaching.

Get more for less with HP Desktops

Rumors about the demise of the desktop are greatly exaggerated. Feature for feature, desktops are more affordable than notebooks and their lower price points make them highly attractive to educational institutions.
HP EliteOne 800 G1 Touch All-in-One

Elevate student performance with this Touch All-in-One PC that engages them with a high-definition, interactive experience featuring natural interfaces for learning.

Access
Engage more students with an intuitive interactive experience thanks to the HP EliteOne 800 G1 Touch AIO’s stylishly compact footprint allowing more devices in a smaller space.

Learning
Not only does Windows® enable a dynamic, interactive touch experience, it’s also the gateway to familiar Microsoft productivity software and a seemingly endless source of Open Education Resources available free on the internet.

Immersive learning
Windows® edition, 10-point projected capacitive touch option features edge-to-edge glass, plus rich audio and video using DTS Studio Sound™ for a dynamic, interactive user experience. Students can easily view and interact with the 23-inch diagonal Touch display.

Learning space
Perfect for school computer labs, the stylish, thin design allows plenty of free space to accommodate additional devices on your desktop. With several stand options, you can easily even mount it on the wall. Speed up device charging with a fast-charging USB port. The nearly 2.8x stronger charging current helps compatible devices charge faster than standard USB 3.0 ports. An optional HD webcam enables Microsoft Lync–ready HD video conferencing and lets students share experiences with students around the world. Support of most frequently used I/Os—ODD, USB 3.0, RJ-45, Display Ports—helps students easily connect to peripherals and manage data through various inputs. Easily share internet connections with peripheral devices or between students with HP Wireless Hotspot.

Fast track to success
Get the latest processing technology with a choice of 4th generation Intel® Core™ processors. Quickly open new files and switch applications with less wait time thanks to solid-state drives and solid-state hybrid drive options. Intel® Smart Response Technology (SRT), a disk cache solution, delivers similar performance associated with solid-state drives while retaining the data storage capacity of today’s large hard disk drives.

Keep it secure, keep it simple
IT efficiency reigns supreme when it’s backed by a full portfolio of HP Client Security and Intel vPro management features. HP Client Security helps protect your device, data, and identity. Use HP Client Security and the optional integrated near-field communications (NFC) capabilities to support custom applications such as advanced user authentication, ensuring school visitors are documented and verified before entering school grounds. Intel vPro™ management technology addresses four critical areas of IT security—threat management, including protection from viruses and malware, identity and website access point protection, confidential personal and school data protection, and remote and local monitoring, remediation, and repair of PCs and workstations. Save your data with RAID configurations that utilize dual storage drives to automatically back up and help protect your sensitive data.

Backed by HP
HP EliteOne PCs are rigorously tested to help ensure reliability. During the HP Total Test Process, our PC’s experience 115,000 hours of performance trials to help get you through your school year in one piece. Once it’s in your school, count on the support you need to get long-term value out of your school’s investment with a long life cycle, platform stability up to 30 months, and a fully serviceable design. Rest assured that you can talk to an agent anytime and get priority service at any HP repair center with HP Elite Premium Support, at no additional charge.

Student-centric learning
Windows® edition, 10-point projected capacitive touch option features edge-to-edge glass, plus rich audio and video using DTS Studio Sound™ for a dynamic, interactive experience easily viewed and interacted with to help increase student engagement.

Teacher-centric teaching
Imagine a science lesson taught by an astronaut at the International Space Station. HP Classroom Manager, HP Calculator Emulators, and the optional integrated near-field communications (NFC) capabilities to support custom applications such as advanced user authentication, ensuring school visitors are documented and verified before entering school grounds. Intel vPro™ management technology addresses four critical areas of IT security—threat management, including protection from viruses and malware, identity and website access point protection, confidential personal and school data protection, and remote and local monitoring, remediation, and repair of PCs and workstations. Save your data with RAID configurations that utilize dual storage drives to automatically back up and help protect your sensitive data.

Education compatibility matrix

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</thead>
<tbody>
<tr>
<td>Learning</td>
<td>HP Classroom Manager, HP Calculator Emulators</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>Windows 8</td>
</tr>
</tbody>
</table>
HP ProDesk 400 G1 series/
HP ProDesk 600 G1 series

Affordable desktop PCs, perfect in the classroom or shared computer labs, let you grow student achievement instead of expenses. The expandable HP ProDesk 400 series and HP ProDesk 600 series give schools options to choose from, options to expand, and long life cycles to return their investment.

Access

Affordable desktop PCs, perfect in classrooms or shared computer labs, give schools room to grow. Choose the features that work best for your students—whether comparing form factors, processors, displays, or other flexible configurations—and create a device customized just for your school.

Learning

The new, intuitive Windows 8 user experience means teachers benefit from productive Windows office software as well as gain access to the vast collection of free, online, graphic-rich flash media content.

Meet the new style of IT

The HP ProDesk 400 G1 series and the HP ProDesk 600 G1 series offer thinner, lighter, more powerful computing alternatives for education. Both feature stylish new industrial designs on your choice of two form factors—Small Form Factor (SFF) and Microtower (MT) versions, plus a space-saving ProOne 600 G1 all-in-one. Both offer expandable desktop PC options that meet your current needs with enough room to grow for the future. Watch your students flourish while maximizing your total cost of ownership—now that’s a smart investment.

More expansion, less expense

Choose the form factor that works best for your school. Microtower for maximum configurability or small form factor for smaller desk spaces with optional bundled displays that can be upgraded and expanded as your needs change. With the HP ProDesk 400 G1 and 600 G1 series, you can get what you want at an affordable price. The expandable and upgradeable chassis on both the HP ProDesk 400 G1 series and the HP ProDesk 600 G1 series let your computers grow with your students.

Solid security

Tailored for education, HP Client Security protects your data, device, and identity with hassle-free security. Keep sensitive information in safe hands with HP Trust Circles™ protecting your data by ensuring that only approved contacts can access critical files. HP BIOS Protection offers enhanced protection that’s built into the device to protect against virus attacks and alert you to unauthorized changes.

Desktops you can count on

Both the HP ProDesk 400 G1 series and HP ProDesk 600 G1 series have been built on trusted and reliable platforms. Long life cycles—12 months for the HP ProDesk 400 G1 series and 30 months for the HP ProDesk 600 G1 series—ensure you won’t have to replace them anytime soon. Legendary HP quality ensures they will last with 115,000 hours of reliability testing per series through the HP Total Test Process.

Student-centric learning

The flexibility and expandability of both the HP ProBook 400 G1 series and the HP ProBook 600 G1 series allow you to create a desktop customized for your students. Easy-to-use Windows software means a gentle learning curve for students.

Education compatibility matrix

<table>
<thead>
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<tr>
<td>Learning</td>
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</tr>
<tr>
<td>Operating Systems</td>
<td>Windows 8</td>
</tr>
</tbody>
</table>

Kind to the planet

Designed for the environment with the latest energy-efficient processor support, both the HP ProDesk 400 G1 series and HP ProDesk 600 G1 series come with environmental certifications. Both are EPEAT Gold certified and feature ENERGY STAR® qualified models. Materials on the HP ProDesk 400 G1 series are 90% recyclable and the HP ProDesk 600 G1 series features 100% BFR and PVC free material construction. Power supplies feature 93–94% efficiency ratings to keep hidden costs of ownership in line.

Teacher-centric teaching

HP offers professional development to help teachers get the most out of desktop technology in the classroom. Intuitive Windows software means that learning a new operating system won’t be the first thing your teachers need to do.
**HP Slate21 Pro All-in-One**

Discover the possibilities when a million resources are at the ready.

The HP Slate21 Pro All-in-One is a low-cost, touch-screen desktop solution used in education settings as a classroom PC or as a student station in the library or student labs. Highly manageable using HP Classroom Manager, it features an intuitive Android™ touch experience with access to over 1 million apps on Google Play™ that make learning fun and teaching less complex.

### Access

A low-cost, touch-screen, all-in-one desktop PC perfect for classrooms, libraries, or shared computer labs, it supports multiple user profiles, allowing individual students in different classes their own login credentials.

### Learning

The Android operating system grants access to over 1 million apps on Google Play™ and preinstalled Kingsoft Office 2013 software for creating content compatible with Microsoft Office.

### Ready to teach, ready to learn

Ready for teachers, the HP Slate21 Pro is preinstalled with HP Classroom Manager Student for Android™ and integrates with Windows deployments of HP Classroom Manager to allow students to interact with teachers and teachers to monitor students in the same room or anywhere on the campus. Ready for students, it features Android™ 4.3 and access to millions of apps for all ages on Google Play™ that make learning fun and teaching less complex. Preinstalled Kingsoft Office Suite lets students and teachers create written documents, presentations, and spreadsheets compatible with Microsoft Office files.

### See it, touch it, believe it

Engage students by bringing the world to life via the web with a 21.5-inch diagonal full HD6 IPS display capable of 1080p resolution, integrated HD 720p webcam, and speakers with DTS Sound+Audio. High-definition video conferencing enabled with the preinstalled collaboration tools including Google Hangouts™, Skype, and HP MyRoom and a wide screen viewing angle is excellent at connecting groups of students with educators around the globe. With an intuitive Android™ touch experience and the wide-view screen that reclines up to 70° with the greatest of ease, students get comfortable typing, pinching, zooming, or swiping at any angle.

### To the cloud and beyond

You’ll enjoy smooth collaboration and cooperation around the school or around the world with one-click cloud access. Easily save and access content in the cloud with 50 GB of free online cloud storage from Box. Get immediate notification of cloud updates via the desktop Box widget. Effortless compatibility with cloud applications such as Google Docs™ allows students to work simultaneously on the same documents. Save, manage, and organize your files locally with an internal 16 GB flash memory, or plug in an SD card, USB flash drive, or external hard drive for additional storage.

### Easy to manage

Being Citrix XenMobile Ready™ certified makes it easy to deploy, manage, and integrate Android devices with your existing IT infrastructure without additional IT assistance. HDX Verified testing ensures you’ll enjoy a great user experience. Deliver a virtual workspace with secure data and Windows application support via Citrix Receiver. Full server integration and IT security, through Citrix Receiver and XenMobile MDM.

### Student-centric learning

Easy to use for students of all ages, the HP Slate21 Pro All-in-One has the capabilities students need to become productive technology users. Kingsoft Office Suite 2013 software lets students create their own documents, presentations, and spreadsheets that are compatible with Microsoft Office files. Android 4.3 offers complete access to millions of apps in the Google Play™ app store, and an intuitive Android™ touch experience with an easily reclined screen means students can type or swipe at any angle.

### Teacher-centric teaching

The easily managed HP Slate21 Pro All-in-One has the features teachers and administrators need to help ensure a safe and constructive computing environment including preinstalled HP Classroom Manager and AppLock to prevent unauthorized application download and use. The HP Slate21 Pro meets system requirements for many standardized tests.

### Education compatibility matrix

<table>
<thead>
<tr>
<th>Access</th>
<th>Learning</th>
<th>Operating Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wi-Fi, Bluetooth, Web-enabled Printer, 1 GB Ethernet</td>
<td>HP Classroom Manager, HP Calculator Emulators, Google Play™</td>
<td>Android™</td>
</tr>
</tbody>
</table>
HP Z Workstations
Pro-level equipment for your computer labs—tailored for learning

HP Workstations + professional applications = student success
Reliable, long-lasting workstations give your students easy access to top-notch hardware and software.

Whatever your students’ fields of interest, HP Workstations bring professional solutions into the hands of tomorrow’s workforce. Today’s students need access to the programs and technologies they’ll be using after graduation to build their careers.

Why Workstations for education?
The engineering and innovation built into every HP Workstation enable students to learn professional skills in a variety of disciplines, from the graphics-intensive fields of desktop publishing and journalism to the math or science courses requiring intensive technical calculations. Young engineers also benefit from the amazing processing speed of HP Workstations for 3-D rendering and architectural drawings.

Your office staff will also benefit from the power and speed of HP Workstations, whether they are focused on bus routing or budget reporting. HP Workstations work hard—and they last. They’re the solution of choice for schools, offices, and labs across the world.

Workstation Considerations
• Entry prices rival those of desktop PCs—yet workstations allow optimal expandability and adaptability to changing user needs.
• HP Workstations are designed for easy servicing with a tool-less access chassis and modular, direct-connect drives.
• Behind-the-scenes advancements in architecture, multicore processor options, and high-speed storage make HP Workstations faster than ever.
• Designed for all-day use to minimize costs—fully capable of housing a variety of software solutions so that multiple departments can use the same computers throughout each school day.

Learn more
hp.com/go/educationworkstation
The HP Z1 Workstation gives you ultimate control and flexibility with tool-free access to the chassis for simplified swapping and upgrading. It’s an all-in-one solution—everything is built right behind the 27-inch diagonal display. So say goodbye to wires and forget about finding space for the tower, because with this streamlined workstation, you can install, upgrade, and run your new computer without all the fuss.

**Access**

The all-in-one HP Z1 saves space, giving schools the option to station these multifunctional workstations either in classrooms or traditional computer labs—or both. With the Intel® Xeon® processor, each unit can handle multiple graphics-intensive programs without slowing down.

**Learning**

Having up-to-date technology allows students to apply what they’re learning during instructional time to practical challenges and assignments that mimic real-world projects. Giving students the opportunity to put their learning into practice optimizes their retention of concepts.

**Dazzling display**

The Z1 brings fantastic graphics capabilities to students, with excellent viewability of the 27-inch screen from any angle. That’s perfect for group projects, especially with the optional 10-point touch screen and antiglare display.

**Think ahead**

Adaptability is key in today’s world of ever-changing technology. This workstation gives you easy access to standardized components inside the snap-on chassis so you can plan for the future. It’s easy to upgrade the graphics card, add memory, or swap hard drives.

**Quiet. Cool. Efficient.**

We’ve created a revolutionary new cooling system that brings you long-lasting, hard-wearing components in a sleek, slim shape. The whisper-quiet cooling system channels heat into four independent cooling zones, so you never have to worry about overheating—and the 90% efficient power supply means less power is lost as heat.

**Student-centric learning**

Help students unlock their potential for creativity and achievement with technology that enables high performance. Each Z1 workstation delivers fantastic speed and high productivity in this all-in-one solution for school labs, classrooms, and faculty use.

**Teacher-centric instruction**

The space-saving features of the Z1 allow more room in the classroom, so teachers can more easily oversee students. Also, the tool-free access panel saves teachers’ and staff members’ time when maintaining or upgrading components. Reducing time spent on maintenance leaves more time for student instruction and mentoring.

**Rigorous ISV Certifications**

HP invests in resources, equipment, relationships, testing and ISV (Independent Software Vendor) certification to ensure HP Z Workstations work as expected with your applications. This level of HP effort means your investment in software and HP hardware is protected, with a commitment to the quality and support of the full solution.

**Complete peace of mind**

All HP Z Workstations come with a limited 3-year parts, 3-year labor and 3-year onsite service (3/3/3) standard warranty that is extendable up to 5 years. To find the complete list of compatibility, please refer to the Education compatibility matrix.

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**Education compatibility matrix**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Access</strong></td>
<td>Blu-ray, 1 GB Ethernet</td>
</tr>
<tr>
<td><strong>Learning</strong></td>
<td>HP Remote Graphics Software, HP Performance Advisor*16</td>
</tr>
<tr>
<td><strong>Operating Systems</strong></td>
<td>Windows 8</td>
</tr>
</tbody>
</table>

*16 HP Performance Advisor is included for 3 years. After 3 years, customers may purchase extended warranty to continue receiving support for the HP Performance Advisor.
Access

Taking projects back and forth between home and school is simple with the PCI input/output slot, four PCIe slots, ten external USB ports, and a fast-charging USB port. We use a 24/7 design standard to ensure that your workstations are long-lasting, durable, and efficient.

Learning

Enable students to go beyond traditional boundaries with an up-to-date technology solution that gives them the processing speed and memory capabilities demanded by today’s programs. This affordable line of HP Workstations supports learning in the technical fields that are in demand for tomorrow’s young professionals.

Affordable reliability

This long-lasting system is gentle on the budget, both at purchase and down the road. It’s designed to be easily upgraded as your school’s technology needs change and expand in the future. The power source is a money-saver too—it’s an amazing 92% efficient to save energy in a school’s all-day-use environment.

No skimping on quality

Even though the Z230 systems are easy on the budget, they work hard for your students. Field-tested at 100,000 hours and packed with the power of the Intel® Xeon® processor E3-1200 v3 family and the fourth-generation Intel® Core™ processors, this workstation is powerful enough for professional use—at a price that rivals desktop PCs.

Student-centric learning

Start students off right with affordable access to computing power that packs a wallop. These workstations can handle engineering and architecture programs, graphic design and filmmaking, and more—all in the kind of well-engineered infrastructure you’ve come to expect from HP.

Teacher-centric instruction

Get the durability of long-lasting HP Z230 workstations to minimize time spent on maintenance—and away from students. These flexible, adaptable systems allow staff and teachers to create the functionality they need in a trim piece of equipment that won’t clutter up the computer lab or classroom.

Rigorous ISV Certifications

HP invests in resources, equipment, relationships, testing and ISV (Independent Software Vendor) certification to ensure HP Z Workstations work as expected with your applications. This level of HP effort means your investment in software and HP hardware is protected, with a commitment to the quality and support of the full solution.

Complete peace of mind

All HP Z Workstations come with a limited 3-year parts, 3-year labor and 3-year onsite service (3/3/3) standard warranty that is extendable up to 5 years.44

Education compatibility matrix

<table>
<thead>
<tr>
<th>Access</th>
<th>1 GB Ethernet, Optional Blu-ray</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learning</td>
<td>HP Remote Graphics Software, HP Performance Advisor44</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>Windows 8</td>
</tr>
</tbody>
</table>
HP Z420 Workstation

This tool-free Minitower form factor offers an easy-open side panel for simple expandability. A myriad of customization options allow you to create your school’s best system for a fantastic blend of power, durability, and adaptability.

Access

Today’s students must adapt to an ever-changing array of learning modules. The HP Z420 Workstation makes expansion easy through six PCI expansion slots. The system also boasts nine external USB ports to make connecting with external devices and peripherals a breeze.

Learning

The best technology melts seamlessly into the background, and allows students to focus on learning and building skills. The optional liquid cooling system available for this workstation makes it whisper-quiet—fantastic for school-wide use!

Smart design for easy upgrades

Let’s have an end to the days of fiddling with tools—the HP Z420 Workstation comes with an easy-open side panel that lets you simply snap open the chassis and click the most-swapped components into place. Ease of upgrading translates to a longer useful life for your school’s hardware investment.

Power IS performance

The new E5-1680 v2 eight-core processor and Intel® C602 chipset help this workstation achieve up to an 86% increase in memory bandwidth over its predecessors. That kind of power allows students to use today’s professional-level programs to create work of unsurpassed quality for any student project, whether it’s laying out the yearbook, editing a video log of a science experiment, or computing advanced probability or statistical data.

Gratifying graphics

The advanced graphics capabilities deliver life-like picture quality without slowing processing times. Choose from a range of available graphics options that look almost too good to have been generated on a computer screen.

Student-centric learning

Create a system that’s customized for your school’s needs. The optimal learning environment is the one that fits the needs of the students, so choose from among eight processors, six displays, and up to 64 GB of memory. Customize further with your choice of accessories, including DVD-ROM, DVD+/–RW DL Super-Multi, Blu-ray writer, and a 15-in-1 media card reader.

Teacher-centric instruction

You’ll love the ease of upgrading or swapping on this robust workstation. Save time and money by simply clicking components in and out—and save space with the Minitower form factor designed by world-class HP engineering.

Rigorous ISV Certifications

HP invests in resources, equipment, relationships, testing and ISV (Independent Software Vendor) certification to ensure HP Z Workstations work as expected with your applications. This level of HP effort means your investment in software and HP hardware is protected, with a commitment to the quality and support of the full solution.

Complete peace of mind

All HP Z Workstations come with a limited 3-year parts, 3-year labor and 3-year on-site service (3/3/3) standard warranty that is extendable up to 5 years.  

Education compatibility matrix

<table>
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<td>Learning</td>
<td>HP Remote Graphics Software, HP Performance Advisor</td>
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<tr>
<td>Operating Systems</td>
<td>Windows 8</td>
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</tbody>
</table>
HP Z620 Workstation

Armed with four times the memory capacity of previous incarnations and up to 24 discrete processor cores, the HP Z620 Workstation can handle any task you give it. It’s also far more quiet and compact than you’d expect for such a hard-working, quick-thinking machine.

Access

Your students can run a whole suite of multimedia applications simultaneously on the HP Z620 without worry—this muscular storage solution can handle them all without blinking an eye. Its robust processing capabilities eliminate the old frustrations of long processing times for graphics or out-of-memory errors.

Learning

With professional workstation-class power, the Z620 allows students to experience the same software tools that are used in advanced engineering and 3D applications. Certification means the Z620 was built to run the most popular applications to get your students college and career ready.

A performance powerhouse

Don’t let its compact size fool you—the Z620 is designed to maximize system performance without taking up too much valuable classroom space. Each internal element fits together in a sensibly small form factor, offering you maximum processing and memory in a minimal footprint.

Hassle-free access

The HP Z620 brings you our revolutionary tool-free chassis for quick entry, integrated handles for comfort while transporting it, and even a tool-free power supply for saving setup time. The sleek form factor is also nearly silent, keeping the students’ focus where it belongs—on their studies, not their technology systems.

More versatile, more customizable

This workstation can be geared precisely to your needs with a variety of SATA cable configurations. The SAS RAID storage options let you create your own high-capacity storage solution—and the 20+ compatible processors provide as much speed as you need.

Student-centric learning

Let your students explore their future professions with a workstation that can handle any project they bring. Free their minds to think creatively with technology that can help prepare them to solve problems in engineering and science or to generate new ideas in graphic design and journalism.

Teacher-centric instruction

Reliable power—that’s the essence of the HP Z620. The fantastic processing capabilities of this workstation are backed by solid HP design and engineering, giving your school the ability to create a computer lab environment that’s unsurpassed in computing power and longevity.

Rigorous ISV Certifications

HP invests in resources, equipment, relationships, testing and ISV (Independent Software Vendor) certification to ensure HP Z Workstations work as expected with your applications. This level of HP effort means your investment in software and HP hardware is protected, with a commitment to the quality and support of the full solution.

Complete peace of mind

All HP Z Workstations come with a limited 3-year parts, 3-year labor and 3-year onsite service (3/3/3) standard warranty that is extendable up to 5 years.  

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<td>Operating Systems</td>
<td>Windows 8</td>
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</tbody>
</table>
HP Z820 Workstation

Provide students with unsurpassed computing power. The Z820 can take absolutely any project in its stride, with its ultra-powerful processors and top-of-the-line graphics. This premier system delivers the highest capabilities—all in our enhanced tool-free access system. Whisper-quiet and cool, this workstation is geared toward helping students create their best work ever.

Access

The Z820 is the ultimate workstation for forward-thinking schools. Providing top-notch technology allows students to surpass their goals and achieve like never before, as they put this ultra-powerful machine to use in nearly endless ways.

Engineering masterpiece

Gone is the tangle of cables and wires inside the traditional tower setup. Gone is the hassle of reaching for the toolbox to access even the most frequently changed components. And gone is the constant, fuzzy noise of the cooling system. The Z820 is engineered in a streamlined form factor to be simple to maintain or update, comfortable to handle, and easy on the ears, even in a multicomputer lab environment.

Multitasking just got easier

Students need the ability to complete multiple concurrent assignments in a variety of disciplines. The HP Z820 offers unsurpassed operating speed, with a range of Intel® Xeon® E5-2600 v2 processors available to enable next-generation PCI Express technology. Up to 24 processing cores deliver unsurpassed speed and agility, while the C600 series chipset, LSI SAS 2308 controller, and dual Intel® QuickPath Interconnects help your system components work together seamlessly.

An animation teacher’s dream

Make sure your students’ creativity and progress aren’t limited by outdated technology. The superb visuals and unmatched processing power of the Z820 give students the tools to prepare for a future in a wide range of creative fields, including animation, CGI, graphic design, commercial art, film, and video.

Student-centric learning

Unlock students’ potential with unmatched processing power and intense visuals. Perfect for graphics-rich projects and complex data processing, the Z820 is the ideal system for students taking their skills to the next level.

Teacher-centric instruction

Never worry again about students becoming bored and restless as they wait for their program to refresh, save, or process. This workstation powers through assignments like no other. It’s lightning fast, fantastic with graphics, and is so quiet you might wonder if it’s turned on.

Rigorous ISV Certifications

HP invests in resources, equipment, relationships, testing and ISV (Independent Software Vendor) certification to ensure HP Z Workstations work as expected with your applications. This level of HP effort means your investment in software and HP hardware is protected, with a commitment to the quality and support of the full solution.

Complete peace of mind

All HP Z Workstations come with a limited 3-year parts, 3-year labor and 3-year onsite service (3/3/3) standard warranty that is extendable up to 5 years.

Education compatibility matrix

<table>
<thead>
<tr>
<th>Access</th>
<th>Blu-ray, 1 GB Ethernet</th>
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<tr>
<td>Learning</td>
<td>HP Remote Graphics Software, HP Performance Advisor</td>
</tr>
<tr>
<td>Operating Systems</td>
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</tr>
</tbody>
</table>
HP Mobile Workstations

Incredible power that’s as mobile as your students

HP ZBook 14 Mobile Workstation
The world’s first workstation Ultrabook® delivers maximum mobility without sacrifice. HP Remote Graphics Software allows for instant connection with teachers, and constant collaboration with classmates. The 4th generation Intel® Core™ i5 or i7 processors in the HP ZBook 14 Mobile Workstation balance energy efficiency with traditional workstation performance requirements to create an all-around mobile workhorse.

- Multicore processor options available to enhance performance of many commonly used applications.
- Comes with easy-to-use Windows 7 or Windows 8 OS preinstalled.
- Includes four USB ports and one DisplayPort.
- Connect wirelessly with Wi-Fi, Bluetooth, WLAN, and WWAN options.

HP ZBook 15 Mobile Workstation
Secure a sensible solution to your educational technology needs. The HP ZBook 15 Mobile Workstation offers impressive speed, durability, and reliability without leaving behind the intense graphics that are the hallmark of HP displays. As reliable as any of our workstations, the eight-cell Li-ion batteries in this mobile system can endure hours of use without fading.

- Spill-resistant keyboard and drain come standard, as well as a touchpad with on/off button, two-way scroll, and gestures.
- Robust capabilities with up to 1.87 TB of storage and up to 32 GB of memory.
- HP fingerprint sensor for security and fast access.
- Expansion options include an ExpressCard/54 slot, a Secure Digital card slot, and a Smart Card Reader slot.

HP ZBook 17 Mobile Workstation
Broaden your students’ horizons with the HP ZBook 17 Mobile Workstation, a highly expandable system combining portable power and enduring quality for today’s fast-paced educational world. There is no compromise on viewability with the 17.3-inch diagonal screen, and the field-tested display is housed in a durable chassis designed to the exacting requirements of HP engineering.

- The HP Easy Access Door simply unlatches for servicing and upgrading hardware.
- Use HP Performance Advisor 34 to help configure personalized settings and drivers for optimal performance.
- Includes Thunderbolt™ and pro-level NVIDIA Quadro 3-D graphics for ultra-rich visuals.
- Configured with up to 2.87 TB of storage and up to 32 GB of memory for your needs.
- Multiply functional capacity by using HP Remote Graphics Software to connect with lab-based workstations.
Whether you’re teaching preschoolers or university-level adults, visual aids are considered one of the most effective methods of communicating, instructing, and learning. HP Designjet printers offer affordable, easy-to-use solutions that can be easily integrated into student learning objectives and educational environments. Print detailed, large-format maps and charts, professional-quality posters and banners, and high-impact graphics at your school, eliminating the high cost of outsourcing large-format projects. Use large-format graphics to reinforce class goals and highlight student achievement. Leverage your investment to offer students the opportunity to explore careers that use large-format printing—design, architecture, engineering, and construction.

Expand minds with large-format printing from HP Designjet

Growing minds think big. Encourage creative thinking with large-format signs, displays, and other learning tools that help promote everyday communications and enhance teaching effectiveness.

HP Designjet ePrint and Share—for effective collaboration in the classroom

Team up on projects with students, colleagues, and administrators; brainstorm and share ideas; store and submit project drafts via the cloud. HP makes it simple with HP Designjet ePrint and Share. This free web service allows students to view, access, and print large-format signs, posters, maps, and other projects they’ve seen and have been working on in class—from virtually anywhere using their tablet, smartphone, laptop, or even the ePrinter’s touchscreen.
HP Designjet Printers

Make a big impact at your school with large-format printing from HP Designjet.

HP Designjet T120 ePrinter
Get more for your money with the easy-to-use, web-connected HP Designjet T120 ePrinter. Two printers in one, the HP Designjet T120 prints from letter to D-size using the B+ tray or from a 24-inch wide front-loading media roll. Install your printer where it’s most convenient and work where you want, thanks to Wi-Fi connectivity and the smallest printer footprint in its class.

- Line drawings: 70 sec/page on A1/D, 70 A1/D prints per hour
- Color images: Fast: 22.4 m²/hr (241 ft²/hr) on coated media / Best: 2.3 m²/hr (25 ft²/hr) on glossy media
- Print resolution up to 1200 x 1200 optimized dpi from 600 x 600 input dpi and optimization for photo paper selected
- Media Handling: Sheet feed, roll feed, input tray, automatic cutter

HP Designjet T520 ePrinter
Professional results fast with the HP Designjet T520, available in 24- and 36-inch web-connected printers. Deliver maps, banners, and posters quickly thanks to 1 GB of RAM and HP-GL/2 technology, processing large files at high speeds. Consistent, high-quality output means accurate lines and sharp details up to 2400 dpi from the first print to the last with a long-life printhead.

- Line drawings: 35 sec/page on A1/D, 103 A1/D prints per hour
- Color images: Faster: 41 m²/hr (445 ft²/hr) on coated media / Best: 3.1 m²/hr (33.3 ft²/hr) on glossy media
- Print resolution up to 2400 x 1200 optimized dpi from 1200 x 1200 input dpi and optimization for photo paper selected
- Media Handling: Sheet feed, roll feed, automatic cutter

HP Designjet T790 ePrinter
Get high-quality printing at fast speeds with the HP Designjet T790 ePrinter. Its intuitive color touch screen makes it easy to create rich, dark blacks; true neutral grays; vibrant colors; and fine, detailed lines for highly accurate reproductions.

- Color images: Fast: 41 m²/hr (445 ft²/hr) on coated media / Best: 3.1 m²/hr (33.3 ft²/hr) on glossy media
- Print resolution up to 2400 x 1200 optimized dpi from 1200 x 1200 input dpi and optimization for photo paper selected
- Media Handling: Sheet feed, roll feed, automatic cutter

HP Designjet Z5400 PostScript ePrinter
The first multiroll ePrinter for graphics, the Designjet Z5400 multiroll ePrinter efficiently produces high-quality, long-lasting prints— including posters, photos, canvases, backlit prints, indoor signs, line drawings, and maps. With HP Instant Printing PRO you can quickly preview, crop, and print PDF, PostScript®, and HP-GL/2, TIFF, and JPEG files up to 44 inches (111.8 cm) wide.

- Maximum print speed: 33 m²/hr (570 ft²/hr)
- Print resolution up to 2400 x 1200 optimized dpi
- Media Handling: Two automatic roll feeds; smart roll-switching; sheet feed; media output bin; automatic cutter
HP Officejet Pro Printers

Education as you imagined. Colorful. Inviting.

Versatile, economical HP Officejet products, like HP’s Officejet Pro printers and MFPs, including the X-series with HP PageWide Technology, are ideal for creating dynamic classroom materials—in vivid color and at up to twice the speed44 and half the cost per page45 of color laser printers. Cost-effectively produce lesson plans, tests, reports and more with sharp, laser-quality black text. Productivity-enhancing features make it simple to work efficiently. Make copies, fax documents, or scan to send or store electronically. Connect and print—from mobile devices with HP ePrint, HP wireless direct,47 and Apple® AirPrint™.48 Help protect student confidentiality with innovative security features.

Why HP Officejet Pro?

Educational institutions, both public and private, are facing tight budgets, fewer resources, and increased demand. While trying to address these economic realities, educators feel the burden of strict accountability policies and classroom evaluations; and administrative staff realize the need to compete with peer organizations for students, faculty, staff, and resources. Educational institutions must cope with paper-intensive processes that are ultimately unsustainable because of the costs associated with printing, handling, and storing paper. HP Officejet Pro reduces the time and cost of handling stacks of paperwork to help schools decrease administrative costs and improve staff satisfaction. HP Officejet Pro printers and MFPs boost staff productivity and morale by virtually eliminating manual filing, speeding up processing, and offering single-click access to student, personnel, and administrative records. Extend limited resources by using HP Officejet Pros for the production of mailers, reports, and enrollment kits right in school. By using the scanning feature of the HP Officejet Pro MFPs, schools can digitize workflows by converting paper to digital information that can easily be shared. Teachers can create their own content right in the classroom and administrators can track classroom printer usage for more accurate budgeting.

Ways to save with HP Officejets

• Save with affordably priced, energy-efficient HP Officejet Pro products
• Cut paper costs with automatic two-sided printing
• Print more with economical, optional high-capacity ink cartridges46
• Optimize space utilization with a small printer footprint

Inspire learning with HP Officejet Pro

Vibrant color for vivid imaginations. HP Officejet Pro, the ultimate teacher’s aide.
Officejet Pro X series

Featuring blistering speeds of up to 70 pages per minute, the secret to the HP Officejet Pro X Series’ record-breaking speed and professional quality is HP PageWide Technology—a stationary print bar that spans the width of a page and prints entire documents in a single pass. The Officejet Pro X series offers your school professional-quality prints at up to twice the speed and half the printing cost of laser.

Officejet Pro 200 series

Ideal for a classroom, the Officejet Pro 200 series is designed to provide managed environments with reliable printing at up to 50% less cost per page than color lasers. Easily manage a few devices or an entire fleet with powerful admin and security tools and the superior quality you expect from HP.

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### HP Officejet Pro 251dw Printer
- Up to 20 ppm black/15 ppm color ISO4
- Enhanced management with UPD, WJA, PCL printer languages
- High-Speed USB 2.0
- HP ePrint
- Web connected with apps

### HP Officejet Pro 276dw MFP
- Up to 20 ppm black/15 ppm color ISO4
- Copy, scan, fax, and duplex printing
- Solutions extensibility
- Enhanced management with UPD, WJA, PCL printer languages
- 4.3” color touch screen

### HP Officejet Pro X476dn MFP
- 6-15 users per network
- Up to 4200 pages per month
- Up to 70 ppm in general office mode (ISO speed up to 42 ppm)
- HP ePrint
- Web connected with apps
Officejet Pro 8600 series

An exceptional printer at an ideal cost per page for education, the Officejet Pro 8000 series delivers the top-of-the-line features you want while keeping your costs low. With features like HP Web Jetadmin, duplex printing, and a generous monthly duty cycle, the Officejet Pro 8000 series comes equipped with all the tools to enhance productivity while delivering professional-quality prints. The Officejet Pro 8000 series is ENERGY STAR® qualified, meaning you can use up to 50% less energy than a color laser and save up to half the cost per page compared to color laser printers.54

HP Officejet Pro 8600 Plus e-All-in-One
- Up to 50% less cost per page than lasers55
- Copy, scan, fax, and duplex print
- Up to 20 ppm black/16 ppm color ISO5
- Letter/A4-size scanning glass
- 250-sheet paper tray

HP Officejet Pro 8600 Premium e-All-in-One
- Up to 50% less cost per page than lasers55
- Copy, scan, fax, and duplex print
- Up to 20 ppm black/16 ppm color ISO5
- Additional 250-sheet paper tray
- Second set of color ink cartridges

HP Officejet Pro 8100 ePrinter
- Up to 50% less cost per page than lasers55
- HP ePrint56
- Up to 20 ppm black/16 ppm color ISO5
HP Enterprise and Multi-Function Printers

Education workhorses

Enjoy the legendary quality and reliability of enterprise-class LaserJets, Officejets, and Scanjets from HP

HP designs enterprise-class printers and MFPs that blur the lines between digital and hardcopy by making it easier to digitize classroom content and choose the optimal format to offer it to students for the best learning outcome. With reliable HP LaserJet and Officejet Printers and MFPs, as well as HP Scanjets, your school can choose what to print and what to view electronically. Plus, the ability to digitize content enables you to increase productivity with more efficient digital workflows, freeing up valuable time for teaching.

Optimize your infrastructure, manage your environment, improve your workflow

Your school’s imaging and printing environment presents an opportunity to reduce costs from improved fleet management through to better workflow design. In your ongoing quest to maximize productivity and drive down costs, you might be surprised by the savings and greater competitive advantage you can achieve with a fully optimized and well-managed printing and imaging environment. In fact, studies have shown that managing your fleet holistically can save you upward of 30% on your printing costs. And the savings increase exponentially when the scope of work includes automating your paper-intensive workflows. One organization estimates it saved over 75% in printing energy usage and helped reduce its environmental footprint.

Why HP LaserJet and Officejet Enterprise?

Affordably priced printing using HP LaserJet and HP Officejet Printers and MFPs enables adoption of HP’s Hybrid Learning Solution, a print model for education designed to take advantage of the benefits of both print and electronic content to deliver the best of both worlds to students. Using enterprise-class printers and MFPs to print content that requires sustained, in-depth reading or visually dynamic content enables students to engage more deeply. Teachers can also cost-effectively print lesson plans, report cards, or the occasional pop quiz quickly and easily.
**HP Officejet Enterprise Color X series**

Looks like laser, runs like laser. Costs half as much. Now there’s a whole new way to print. HP Enterprise X printers deliver the speed, power, and quality of HP LaserJets, but are built with the specific needs of a fast-moving classrooms in mind. Workflow management solutions and HP PageWide Technology for X-series speed make these printers perfect for schools. They’ll change the way you think about ink—and change the way your business works with revolutionary technology that can cut costs in half compared to color laser.

**HP Officejet Enterprise Color MFP X585 series**
- Color ink MFP
- About 5–15 users
- Up to 6000 pages per month
- Up to 70 ppm in general office mode (ISO speed up to 42 ppm)\(^{1}\)
- Duplex printing

**HP Officejet Enterprise Color X555 series**
- Color ink printer
- About 5–15 users
- Up to 6000 pages per month
- Up to 70 ppm in general office mode (ISO speed up to 42 ppm)\(^{1}\)
- Duplex printing

**HP LaserJet Pro series**

Easily print how you want, where you want. Across the campus or on the go, printing to these LaserJets is simple and direct—even without a network—using Ethernet, wireless options, or touch-to-print technology.\(^{37,58,59}\) Capture scans in a single pass and send them quickly to their next destination—email, network folders, or the cloud.\(^{61}\) Make copying and scanning more hands-free, with a 50-page automatic document feeder and automatic two-sided printing.\(^{60}\) The intuitive touch screen and the easy-access USB makes it simple to walk up and print.

**HP LaserJet Pro M425dn MFP**
- Mono laser MFP\(^{62}\)
- Up to 35 ppm\(^{63}\)
- Paper handling: 50-sheet multipurpose tray, 250-sheet input tray, 500-sheet optional tray, 150-sheet output bin, automatic duplexer for two-sided printing

**HP Color LaserJet Pro MFP M476 series**
- Color laser MFP\(^{62}\)
- Up to 21 ppm\(^{63}\)
- Paper handling: 50-sheet multipurpose tray, 250-sheet input tray, 150-sheet optional tray, 150-sheet output bin, manual or duplexer for two-sided printing
HP LaserJet Enterprise series

These reliable, high-performance, networked laser printers are ideal for schools that need to print high volumes and confidential documents on a variety of media types. Secure all confidential and business-critical data by ensuring only authorized individuals have access. Extend capabilities with memory slots and optional paper trays and add HP or partner solutions via internal accessory ports, EIO slots, and hardware integration pockets. The LaserJet Enterprise 500 color M551 printer series gives productivity a boost with the power of color.

HP Mobile Print Accessory

Easily add wireless direct printing and touch-to-print technology to your HP printer or MFP—and enable the entire office to print from smartphones, tablets, and notebook computers. The HP 1200w Mobile Print Accessory plugs into a USB port on supported HP devices, making wireless printing easy for everyone in the school. With wireless direct printing, simply connect your mobile device to a printer or MFP in the same way you would discover and connect to a public wireless network. Walk up and print from your NFC-enabled smartphone or tablet with just a touch. NFC, or near field communication, automatically discovers the printer for you, eliminating the guesswork and creating a one-to-one connection using wireless technology.

HP LaserJet Enterprise P3015 series
- Mono laser printer
- Up to 42 ppm
- Paper handling: 50-sheet multipurpose tray, 500-sheet input trays, 500-sheet optional trays, 150-sheet output bin, manual or duplexer for two-sided printing

HP LaserJet Enterprise Color M551 series
- Color laser printer
- Up to 33 ppm
- Paper handling: 50-sheet multipurpose tray, 500-sheet input trays, 500-sheet optional trays, 150-sheet output bin, manual or duplexer for two-sided printing

HP Mobile Print Accessory
- Get up and running fast with easy USB installation.
- Both wireless direct and touch-to-print technologies use a peer-to-peer connection, allowing users to print without accessing the school network.
- Safeguard your confidential information with 128-bit encryption.
- Stay in control by enabling a pass phrase through the HP Embedded Web Server.
- HP is the only print vendor developing embedded print functionality for Apple iOS, Samsung Android, and Windows 8.
- For mobile devices without built-in print support, printing is just as simple, but users will first need to download the HP ePrint app or HP ePrint software.
HP Scanjet

With HP Scanjets, you can transform piles of paper into searchable, editable files your school can use. Plug right in to existing scanning platforms to save time and add efficiency to your processes. Your HP Scanjets will create clear, legible results to share and to save.

HP Scanjet Pro 3000s2
- Scanner type: Sheet-fed scanner
- Scan speed: ADF (A4/Letter) Up to 20 ppm/40 ipm (300 dpi color, gray, b&w)
- ADF capacity: Up to 50 pages
- Scanner features: Duplex scanning, ultrasonic double-feed detection, auto color detection, page size detection, crop, deskew, rotation, blank page removal, scan to SharePoint® and scan to cloud features among many other scan-to destinations

HP Scanjet N6310
- Scanner type: Flatbed scanner
- Scan speed (ADF): Up to 15 ppm/6 ipm (using HP Scanning Software)
- ADF capacity: Up to 50 pages with duplex scanning

HP Scanjet Enterprise Flow 7000 s2
- Scanner type: Sheet-fed scanner
- Scan speed: Up to 45 ppm/90 ipm (black and white, grayscale, color, both 200 dpi and 300 dpi)
- ADF capacity: Up to 50 pages

With HP Scanjets, you can transform piles of paper into searchable, editable files your school can use. Plug right in to existing scanning platforms to save time and add efficiency to your processes. Your HP Scanjets will create clear, legible results to share and to save.
HP Managed Print Services

In this age of information as commodity, imaging and printing services are as much about streamlining and personalizing the delivery of digital documents and enhancing information workflows as they are about helping you deliver hardcopy pages.

Success in the information age requires that your school views imaging and printing as a vital component to your overall document workflows and daily processes—whether paper-based or electronic.

HP Managed Print Services for imaging and printing environments can help. When managed well, your imaging and printing environment can yield substantial cost savings and productivity gains. Getting to a place where imaging and printing is seamlessly integrated within your larger IT environment and running at peak performance demands expert advice and personal, reliable, cost-effective support—which is exactly what HP delivers to organizations around the world. HP Managed Print Services offers solutions tailored to your school’s specific requirements to help you reduce costs across your imaging and printing environment, receive expert technical phone support, experience predictable and consistent service delivery across multiple locations, streamline and automate paper-intensive workflows, and benefit from the expertise of one of the leading, and most stable, IT services providers in the industry.

The HP three-part approach to MPS

The HP MPS offering is based on a proven, three-part approach. This approach supports each educational institution’s requirements to provide and provision the right imaging and printing capabilities while expanding the utilization of those capabilities to further the institution’s mission. It also manages deployment and provides ongoing maintenance.

“With HP Managed Print Services, we have the right printers in the right places, robust cost accounting and reporting, and streamlined supplies management.”

– Yancy Hawkins, Fiscal Services Manager, Palo Alto Unified School District

Success in the information age requires that your school views imaging and printing as a vital component to your overall document workflows and daily processes—whether paper-based or electronic.
HP ePrint Total Campus Solution

Making it easy for students and teachers to print.

What if you could offer students and teachers access to reliable printing yet still control your printing costs? What if students and staff alike could print from anywhere and retrieve their prints from a variety of campus locations? What if you could do more for less than you’re spending now for a system that is static, expensive, and fraught with risk? The HP ePrint® Total Campus Solution helps universities meet the imaging and printing needs of students, faculty, and administration without increasing administrative printing costs.

HP ePrint Total Campus Solution provides students and faculty with the ability to print from virtually anywhere, including their homes and classrooms, and then retrieve their prints at a print station on campus by swiping a card or entering a PIN. By integrating with university payment systems and student account systems, the HP ePrint solution helps eliminate the university’s printing costs, offsetting them directly to users on a per-page fee model. Organizations can even choose to offer printing fees at cost or add additional margins to cover the cost of other IT operating expenses. Since more and more print stations replace existing print equipment, over time not only does this solution alleviate the burden of capital cost incurred by printing equipment, it eliminates the overhead of procurement and service management.

This tactical move away from capital investments and toward operational expenses as a means of enhancing cash flows is one of the profound shifts occurring in IT organizations today.

Recognized as a global leader in imaging and printing, HP offers the technical expertise, reliable products, and partner solutions to assess your school’s specific needs and establish a plan to implement a solution that can help your institution reduce operating costs. Contact your local HP representative today and let HP help you implement the best solution for you into the future.
HP Accessories and options

Get the most out of your HP technology investment with genuine HP Accessories.

The HP Accessories advantage

Get innovative, ergonomic accessory solutions for any classroom—HP offers all the accessories you need with a range of features and prices that have been tested to work seamlessly with HP notebooks.

Maximize productivity

• Get the best of both worlds—a portable experience on the go and desktop computing in the classroom.
• Create an ergonomic environment to improve productivity.
• Physically secure your notebook investment.
• Keep your notebook powered and ready for learning.
• Stay connected in more places.

Complete portfolio

• Enjoy efficient, convenient, one-stop shopping—accessories made for your product from the company that designed it.
• HP scale and innovation give you a complete range of the accessories you need at the right price.
• Consistent products and long life cycles keep your investment working for years.

Tested compatibility

• Plug-and-play simplicity designed for easy installation and use with HP notebooks.
• Subjected to the same brutal reliability testing as our notebooks.
• Award-winning service and support ensure your HP Accessories will keep working the way you expect.
HP Stylish USB Keyboard and Mouse
Built for everyday ease of use in the classroom, the HP Stylish USB Keyboard and Mouse boast an impressively sleek and durable design that complement HP Business Notebooks.
- Adjustable keyboard to 0°, 6° or 12° slope
- Tilt keyboard legs to suit a variety of typing preferences
- Built for heavy usage with a life-cycle rating of up to 20 million keystrokes
- Integrated keyboard spill-drain feature reduces damage from minor spills
- Simple and elegant mouse features a contoured shape designed for either hand
- Latest laser mouse technology for variable speed precision on a variety of surfaces
- No mouse ball or moving parts mean improved durability and reduced sticking and cleaning
- Keyboard and mouse utilize a single USB port and dongle

HP Battery Charging Adapter
The HP Battery Charging Adapter offers classrooms the ability to externally charge extra notebook batteries and can be combined with the HP Smart Charging Station for a multi-notebook battery charging solution.
- Supports a wide range of HP notebook batteries with 5-, 6-, or 8-pin connectors
- Can be used alone as a single charger or combined with the HP Smart Charging Station to charge multiple notebook batteries
- Small and portable
- Storable connection cable prevents damage to the dongle or the notebook carrying case
- Supports BNB and CNB batteries
- Supports Smart/non-Smart AC adapters
- Dongles work with any battery form factor or brand of HP notebook

HP UltraSlim Docking Station
Designed exclusively for ultrathin HP EliteBook Notebook PCs, the HP UltraSlim Docking Station expands display, network, and device connectivity through a simple, one-click, slide-in dock.
- Four USB 3.0 ports offer high-speed connectivity to the USB devices
- USB 3.0 reduces the time required for data transmission, is backward compatible with USB 2.0, and is bidirectional
- DisplayPort and VGA ports for video devices
- Ethernet/LAN port (RJ-45) for internet connectivity
- Headphone and microphone jacks
- Power and dock connector (with LED)
- Security lock slot and HP dock lock slot

HP HDMI to VGA Adapter
The HP HDMI to VGA Adapter maximizes the display functionality of HP Notebook PCs by easily connecting to an external display or projector and allowing classrooms to share on a larger screen or multiple screens.
- Leverages notebook’s HDMI port to enable VGA connectivity
- Supports full-size, high-definition resolutions of 720p and 1080p on an external display
- Designed to complement HP Ultrabook™ and Business Notebooks
- Compact and portable

HP UltraSlim Keyed Cable Lock
Keep your classroom investments safe with the HP UltraSlim Keyed Cable Lock designed to fit industry standard lock slot on most HP notebooks.
- Slim lock design compatible with most HP notebooks
- Push-to-lock feature for fast and easy installation
- Lock and unlock the locking mechanism with a key that is unique to the lock
- Swivel and adjust the cable 360° to wherever you need to use it
- Store away the extra key—always have a spare

Note: Your computer, docking station, and monitor must all support USB 3.0 and DisplayPort 1.2 to benefit from the advanced speeds or features that these technologies provide. If one of the devices does not support these technologies, you will still have USB 2.0 and DisplayPort 1.1 functionality.
**HP Accessories (continued)**

**HP Essential Backpack**

The HP Essential Backpack is a durable backpack ideal for technology-toting students to transport notebooks with an up to 15.6-inch diagonal screen.

- Padded adjustable straps provide comfortable fit
- A zippered MP3 player pocket provides a headphone port to keep your player safe and convenient
- Zip-down front compartment holds smaller items like pens, business cards, and USB thumb drives
- Padded materials in main compartment help protect your notebook

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**HP Prime Wireless Kit**

Enable wireless one-to-many teaching and classroom interaction with the HP Prime Wireless Kit. Improve classroom interactivity and make learning easier by allowing teachers to wirelessly push and pull content between the teacher PC and up to thirty HP Prime Calculators in a single classroom. Create and edit programs, exam configurations, and data sets on the teacher PC and send polls to and receive them from student calculators.

- Easy setup and connectivity—just install the software and connect the antenna to the PC and a dongle to each calculator
- Easy interactivity—just create and edit programs, exam configurations, and data sets on the teacher PC and send to each HP Prime Calculator
- Easy evaluation by enabling wireless, real-time formative assessment through instant response surveys

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**HP Docking Station Cable**

Physically secure your HP notebook and docking station in just three easy steps with the HP Docking Station Cable Lock.

- Secures notebook, dock, and upgrade bay with a single lock
- Much simpler to use than traditional locks
- Secures the drive bay in your HP 120 W or 230 W Advanced Docking Station
- Integrate into the HP Docking Station or HP Advanced Docking Station via the unique lock cavity providing enhanced security
HP 20-Notebook and 30-Notebook Managed Charging Carts

Designed to securely store and charge notebook PCs, from minis up to a 15.6-inch, these innovative carts have a large, lockable compartment with individual, smooth-edged shelves for easy, quick, and safe loading and unloading and a separate, locked IT compartment to store notebook power adapters and Ethernet connectors.

- Includes Ethernet cables for convenient batch installation of software updates or virus protection
- Open architecture is compatible with a large variety of HP and non-HP notebooks from 10.1-inch up to 15.6-inch diagonal screen size
- Smart Charging technology directs charging power when and where it’s needed most, so each notebook is charged as quickly as possible
- Features two locking, hinged front doors that retract out of the way into the cart's side channels
- Easily adjustable lightweight shelves feature hand cut-outs for easy notebook removal, venting for optimal cooling/airflow, and allow for extra storage space inside the cart
- Two locking, removable rear panels allow access to the AC adapters and Ethernet cabling
- Top-locking panel on the top surface of the cart is removable for access to additional IT equipment (such as WAP/router, Ethernet switches, and controller box purchased separately and customer-installed)
- Weight 170 lbs
- Minimum dimensions (W x D x H) 35.25 in x 24.8 in x 42.0 in
- One-year limited warranty

NOTE: Due to height limitations of the notebook bay, the following externally attached batteries cannot be used with the HP Notebook Charging Carts: AJ359AA, AT486AA, BJ803AA, QK639AA, QK640AA, QK645AA, RX932AA.

Multi-Tablet Charging Module

Say goodbye to stacks of tablets and a sea of power cords. With the HP Multi-Tablet Charging Module, classrooms can quickly and easily charge, store, and secure up to ten tablet PCs so they’re ready when you need them.

- Change your HP ElitePad, HP ENVY x2, or any AC-powered tablet device up to an 11.6-inch diagonal screen
- Easy to set up by simply connecting each tablet’s AC adapter to the module’s interior power strip and plugging the module into an AC outlet
- Blue LED HP logo lights up to confirm the module is powered
- Doors fold back for easy loading and unloading of tablets
- Adjustable dividers can be removed and repositioned to support storage of thicker tablet devices and devices with jackets and cases
- Lockable doors keep the tablets secure while charging
- External locking mechanism secures the module to a counter or desk for added security
- A vented back panel and two fans promote air circulation inside the module
- Thermally efficient design stays cool to the touch
- Three-year limited warranty
HP Calculators

Powerful tools for tomorrow’s leaders

Encourage exploration and forward progress in the sciences with calculators capable of supporting the theorems and principles taught across the country. Whether students are measuring, mapping, calculating, or graphing, HP Calculators will help them learn and advance.

Why HP Calculators for education?

Today’s students need more than simple skills in math and science. HP Calculators help students go beyond simple computations and focus on learning the problem-solving skills that will support them throughout their careers.

By learning new concepts and exploring complex equations, students with HP Calculators gain the confidence and skills needed to solve real-world problems in the workforce.

Calculator considerations

• Consider the student’s likely end goals and choose a calculator that will be useful throughout their educational path.
• College-entrance tests often specify approved calculators. Selecting a calculator approved for use on the applicable tests will be of use to college-bound students.
• Students often store their calculators in a pocket or backpack. If the calculator will be used daily, make sure to buy one with a sturdy protective case.
• Upper-level math and science courses may require a calculator with greater memory capacity to store complex equations.
• Students who prefer to work visually may benefit from a calculator with a full-color touch-screen interface.

Advanced tools for early training in science, engineering, and finance.

Give students a head start on professional learning with easy-to-use tools that support learning in math and science.
HP Calculators

Portable, practical tools for math and science equations

HP Prime Graphing Calculator
Touch-screen capabilities. Full-color display. Powerful software. The HP Prime Graphing Calculator revolutionizes the category with amazing functionality in a sleek, durable case. Go beyond the limits of traditional graphing solutions with a system that can help students graph nearly any equation in X and Y, including inequalities and conic sections.

• 400 MHz ARM
• Display: 3.5” diagonal, full-color, 10 lines of text
• 320 x 240 16-bit color touch screen
• Lithium-ion rechargeable battery
• Dimensions: 7.13 in x 3.38 in x .550 in
• Weight: 8.04 oz
• Durable, slide-on cover

10s+ Scientific Calculator
With more than 240 built-in functions, the HP 10s+ Scientific Calculator is the perfect resource for studying algebra, trigonometry, probabilities, and statistics. Dedicated keys for common calculations and memory keys for storing important results help keep learning smooth and frustration-free. Easily performs conversions, including decimal/fractions and hours/degrees.

• Approved for many college-placement exams
• 240 built-in functions
• Two-line display shows expression and results simultaneously
• Display area: 2.4 in x 0.75 in
• Solar power with battery backup
• Dimensions: 3.24 in x 0.77 in x 5.89 in
• Weight: 3.25 oz
• Durable, slide-on cover

10bII+ Financial Calculator
The HP 10bII+ Financial Calculator reliably performs a wide variety of financial, statistical, and scientific functions in an affordable, easy-to-use format. It’s perfect for solving for variables in loans or amortization and depreciation schedules, and can also calculate probability and statistical data.

• Approved for CFP®, CCIM® and GARP exams®
• 12-digit, one-line entry
• 22 memory registers
• Automatic power-off
• 170+ built-in functions

10c Financial Calculator

Financial calculations are a breeze with the HP 12c Financial Programmable Calculator. It’s an excellent tool for crunching the numbers for business, real estate, accounting, and economics. This is the industry-standard financial calculator for both students and professionals—and it’s built to exacting HP standards.

• Approved for CFP®, CFA®, and GARP FRM® exams®
• 120+ built-in functions
• Single-line display
• Dimensions: 5.1 in x 0.6 in x 3.1 in
• Weight: 4.09 oz
• Convenient travel pouch
HP Displays

Budget-friendly, environmentally kind

What is an LED Backlit Monitor?

The term LCD stands for liquid crystal display. LCDs are replacing original tube-based CRTs (cathode ray tube) as a popular monitor technology. LCDs use liquid crystals to express what you see on screen. The crystals act as a shutter for the backlight, and depending on the type of charge given to them by the monitor’s built-in electrodes, the crystals will either allow light through to the user or shut it out, therefore allowing the pixels to express their appropriate colors and make up what you see on the screen.

LED-based monitors are still LCDs (they still use liquid crystals to express images onscreen), but they use a different type of backlight than what is normally used. Most monitors in the past have used cold cathode fluorescent (CCFL) tubes as their backlight of choice. Today, more monitors are using LED backlight technology. Edge-lit backlights using white LEDs (WLED) or EL-WLEDs aligned along the edge(s) of the monitor matrix, right behind the liquid crystal array, use a special diffuser and spread the light to cover the entire screen. LED backlight monitors offer distinct advantages.

• LED backlight monitors have high color gamuts and provide more accurate colors.
• LED backlight monitors are always super thin.
• LED backlights have lower power consumption.
• LED backlights take less of a toll on the environment when it’s time to dispose of them.

Perfect for student computer labs, budget-friendly HP LED backlit displays are designed with the environment in mind.
HP Displays

Save money and help save the planet too with LED Backlit Displays designed and backed by HP.

Elite Display E221c 21.5-inch and E231 23-inch LED Backlit Monitors

The HP EliteDisplay E221 21.5-inch LED Backlit Monitor and HP EliteDisplay E231 23-inch LED Backlit Monitor deliver outstanding ergonomic adjustability and convenient connectivity in a premier, energy-efficient design. Customizable tilt, height adjustment, swivel, and pivot settings—the most adjustability available on an HP display—and wide viewing angles ensure clear views for the entire classroom. Easily connect devices with convenient VGA, DVI, and DisplayPort inputs and an integrated 2-port USB hub. Reduce power consumption and help lower your costs with an intelligent, energy-efficient design featuring ENERGY STAR®, EPEAT® Gold, and TCO certifications. Help decrease your eco-footprint with mercury-free LED display backlighting, a low halogen design, and arsenic-free display glass.

• Display size (diagonal): HP EliteDisplay E221—21.5”; HP EliteDisplay E231—23”
• Viewing angle: 70° horizontal; 60° vertical
• Native resolution: 1920 x 1080
• Display features: tilt: -5° to +30°; swivel: 360°; height adjustable: 150 mm; pivot rotation: 90°
• Input signal: VGA (analog), DVI-D, DisplayPort (HDCP support on DVI-D and DisplayPort)
• Power consumption: maximum: 36 W; typical: 30 W; power saving: 0.5 W
• Dimensions (W x D x H): HP EliteDisplay E221: 20.05 in x 9.34 in x 18.12 in (50.9 cm x 23.7 cm x 46 cm)
• Dimensions (W x D x H): HP EliteDisplay E231: 21.42 in x 9.54 in x 18.5 in (54.4 cm x 24.2 cm x 46.9 cm)
• Support: Standard 3-year limited warranty

HP V221 21.5-inch Backlit Monitor

This thin-profile LED monitor delivers 1920 x 1080 resolution, VGA and DVI inputs for easy connectivity, and an ample 21.5-inch diagonal screen size—all at an unbelievably low price point. Students enjoy crisp, clear views on a display that’s designed with the environment in mind featuring arsenic-free display glass and mercury-free display backlights. Place this display’s sleek design wherever you need it; the internal power supply keeps desktops tidy.

• Display size (diagonal): 21.5"
• Viewing angle: 90° horizontal; 50° vertical
• Native resolution: 1920 x 1080
• Display features: Plug and play; language selection; on-screen controls; LED backlights
• Input signal: 1 VGA; 1 DVI-D (with HDCP support)
• Power consumption: 29 W (maximum), 23 W (typical), 0.5 W (standby)
• Dimensions with stand: (W x D x H): 20.36 in x 7.26 in x 14.85 in (51.71 cm x 18.43 cm x 37.71 cm)
• Dimensions without stand: (W x D x H): 20.36 in x 1.93 in x 12.56 in (51.71 cm x 4.9 cm x 31.91 cm)
• Support: Standard 3-year limited warranty

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