

Technology for Learning:

Buyer's Guide



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Technology for Learning

It can be challenging to find the best learning and teaching platforms for students and teachers in today's schools. These platforms must often support a wide range of in-school and out-of-school activities, while being affordable, manageable, durable, and secure.

When schools buy technology based primarily on price, they often find it difficult to adapt the platforms to meet the daily learning and teaching requirements of students and teachers. Analyzing how students and teachers will use the devices, determining the lifecycle of the equipment, and looking at current and future application and operating system requirements will guide solid platform decision-making. By examining more than the up-front capital cost, platform decisions will be much more likely to drive the ideal solution for the setting.

There are many different education technology solutions available today. Combined hybrid approaches—servers delivering a mix of installed and streamed applications and operating systems—support devices to offer the best in flexibility, performance, and cost efficiency.

Here you will find some basics to help you get the right fit for your school population, curriculum, pedagogical repertoires, and IT requirements.

Essential Questions

There are two essential questions to guide technology purchase decisions. The answers will depend on the unique expectations, needs and goals for the school setting.

1. How will the technology be used?
2. How much performance and manageability is needed?



Administration-Operations

The platform must support...

Front office tasks by the administrative staff, such as data entry, record keeping, communications, and scheduling

Platform Choices

Mobility is generally not a requirement for administrative needs, so desktops, laptops, and netbooks are all good options depending on budget, and desired level of performance.

Entry Level: Netbook or laptop

Advanced: Desktop or laptop with enhanced manageability and security

Administrators-School Leaders

The platform must support...

For top rate efficiencies, school leaders need mobility, communication tools and flexibility of resources at their fingertips. Management, just in time communications, resource retrieval and repository are examples of required tasks.

Platform Choices

Mobility: Laptops, robust netbooks, tablets, slates with required applications will provide needed efficiencies.

Desktop: A full-featured desktop with enhanced manageability and security is an option. (However, lack of mobility represents a challenge.)

Educators

The platform must support...

A wide range of classroom management and pedagogy—from creating curricula materials and providing digital feedback to online collaboration and Internet research.

Platform Choices

For teaching platforms, mobility is a key factor. Teachers work throughout the classroom space, the school, the

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district, and at home. A mobile laptop or tablet will work well, as long as it has the performance and capability to support the full range of teaching activities and systematized professional development.

Mobility: A full-featured tablet is ideal, as it provides the ability for the teacher to easily annotate student work—it is the best fit for the full repertoire of rich pedagogy. Netbooks or laptops can get the job done, but do not enable digital pens or touch technology, which truly enhance teaching efficacy. In all cases, mobile devices with enhanced manageability and security are recommended.

Desktop: A full-featured desktop with enhanced manageability and security is an option. (However, lack of mobility represents a challenge.)

Learners

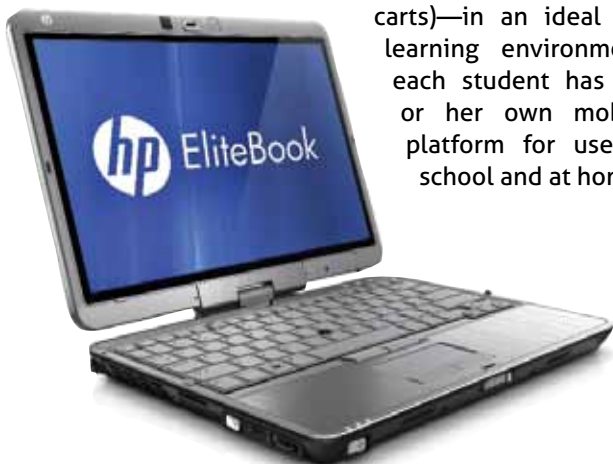
The platform must support...

The full spectrum of learning activities, including content creation, research, collaboration, demonstration of knowledge and access to lessons and Internet materials.

Platform Choices

For learning platforms, mobility is a key feature to consider. Students move throughout the classroom and the school during the day, then they return home and do homework. For learning, as for teaching, tablets represent the ideal form factor, as students can more readily engage in math and science (this is difficult on a keyboard, E.g., sketching the cooling curve).

While you can choose between desktops housed permanently in libraries, labs, or classrooms, and mobile tablets or laptops that may be used either within school, or both in and outside of the classroom (library check-out models and/or carts)—in an ideal 1:1 learning environment, each student has his or her own mobile platform for use at school and at home.



Mobile (Grades K-6): notebook, convertible pen-based tablet or netbook - devices for content creation and consumption

Mobile (Grades 7-8): Tablet, notebook, or netbook

Mobile (Grades 9-12): Full-featured tablet or notebook

In all cases, enhanced manageability and security are recommended.

Desktop (Grades K-6): Desktops—either traditional, space saving designs or desktops with touch technology

Desktop (Grades 7-8): Full-featured desktop with enhanced manageability and security or workstation PCs for multi-media, high-end design, or STEM classes.

Desktop (Grades 9-12): Full-featured desktop with enhanced manageability and security, or workstation PCs for multi-media, high end design, or STEM classes.

Labs, Libraries and Media Centers

The platform must support...

The full spectrum of learning activities, including content creation, productivity, research, collaboration, demonstration of knowledge and access to lessons and Internet materials. High-end computing power for STEM, multi-tasking and design curriculum.



Platform Choices

Desktop (Grades K-6): Desktops –either traditional, space saving designs or desktops with touch technology

Desktop (Grades 7-8): Full-featured desktop with enhanced manageability and security or workstation PCs for multi-media, high-end design, or STEM classes.

Desktop (Grades 9-12): Full-featured desktop with enhanced manageability and security, or workstation PCs for multi-media, high end design, or STEM classes.



➔ PERFORMANCE AND MANAGEABILITY FOR STUDENT DEVICES

Grades K-6

Performance

Need energy-efficient, durable platform to complete lesson activities, use Internet for research and collaboration, and use school software applications

Manageability

No integrated management capabilities required or basic integrated management capabilities

Type of Processor

- HP Slate, Tablet or HP Mini netbook with Intel Atom processor.
- HP Notebook with Intel® Atom™, Intel® Core™2, or Intel® Core™ i3 processor

Grades 7-8

Performance

Need energy-efficient, full-sized, capable platform to support graphics, video, research, collaboration, and multitasking across multiple applications

Manageability

No integrated management capabilities required or basic integrated management capabilities

Type of Processor

- Intel® Atom™, Intel® Core™2, or Intel® Core™ i3 processor
- Intel® Atom™, Intel® Core™ i3 or Intel® Core™ i5 processor
- Optional with Intel Core: Include Intel® vPro™ technology for out-of-band management of platforms

Grades 9-12

Performance

Need energy-efficient, high-performance platform for advanced workloads, data analysis, modeling and visualization, video encoding and editing, Internet usage while managing other content, research, collaboration, and multitasking across multiple applications

Manageability

Basic integrated management capabilities

Type of Processor

- Intel® Core™ i5 or Intel® Core™ i7 processor.

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- Optional with Intel Core: Include Intel® vPro™ technology for out-of-band management of platforms.

Teachers and Higher Education

Performance

Need energy-efficient, high-performance platform for adult workloads, classroom management (for teachers), data analysis, modeling and visualization, video encoding and editing, Internet usage while managing other content, research, collaboration, and multitasking across multiple applications

Manageability

Advanced integrated management capabilities

Type of Processor

- Intel® Core™ i5 or Core™ i7 processor with Intel® vPro™ technology

→ OTHER SUPPLEMENTAL TEACHING AND LEARNING TOOLS

- HP Planning and Professional Development Services
- Asset management, security and tracking
- HP Pocket Whiteboard and Digital Sketch
- HP Presentation Station for teachers
- Document cameras and projectors
- Formative Assessment Tools - Clicker systems and software
- HP Classroom Manager Software
- Productivity and creative software suites – Microsoft and Adobe
- Mobile Notebook Managed Carts
- Student and software usage monitoring and reporting
- HP SchoolCloud – private cloud solution designed for education
- Free supplemental digital curriculum Learning management platform/system

For more information, go to

www.hp.com/go/DigitalLearning

→ BUDGETING

After a district has determined what is needed, planners can make a final decision based on budget.

Good: Reliable basic computing based on the Intel® Atom™ or Intel® Core™2 processor.



Better: Smart performance, content creation, and an improved visual experience are supported by the Intel® Atom™ or Intel Core i3 processor.

Best: Smart high-performance, optimal multitasking, and room for new applications are fully supported by the Intel Core i5 and Core i7 processors, with the added security and manageability of Intel vPro Technology.

We hope this Buyers' Guide is useful in helping you with some of the key decisions in selecting the right platforms for your school. Whatever your decision—from desktops to tablet PCs to cloud computing—HP and Intel have the technologies and products to meet your needs. Your HP or Intel representatives can help you take the next steps, as well as answer questions about deployment, service, support, and regulatory compliance.

What Else Do You Need?

The Buyers' Guide is a companion to the eBook Technology for Learning: A Guidebook for Change and the Technology, Learning and Change Webinar series that provide detailed information on planning, leadership, managing change, digital content, professional development, assessment, infrastructure, financing, and evaluating results.

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