










# APS Approved Technology Computing Devices - Desktops

	Standard Desktop		High End Desktop
Model	<p>HP ProDesk 400 G3 SFF PC - Y2N42UP#ABA</p> 	<p>HP ProDesk 400 G3 Mini PC - Y5F30AV#ABA</p> 	<p>HP Z240 Desktop Workstation - X8G70UP#ABA</p> 
Cost	\$421.24 or \$558.47 with 23" Monitor	\$402.98 or \$540.21 with 23" Monitor	\$788.77 or \$926.00 with 23" Monitor
Standard	<ul style="list-style-type: none"> <li>• Windows 10 64-Bit OS.</li> <li>• 8GB DDR4-2133 DIMM (2x4GB) RAM.</li> <li>• 128GB SATA 2.5 Value SSD.</li> <li>• HP USB Keyboard.</li> <li>• HP USB Optical Mouse.</li> <li>• 9.5mm Slim Desktop DVD-ROM ODD.</li> </ul>	<ul style="list-style-type: none"> <li>• Windows 10 64-Bit OS.</li> <li>• 8GB DDR4-2133 SODIMM (1x8GB) RAM.</li> <li>• 128GB SATA 2.5 Value SSD.</li> <li>• HP USB Keyboard.</li> <li>• HP USB Optical Mouse.</li> </ul>	<ul style="list-style-type: none"> <li>• Windows 10 64-Bit OS.</li> <li>• 16GB DDR4-2133 nECC (2x8GB) RAM.</li> <li>• 1TB 7200 RPM SATA 1st Hard Drive.</li> <li>• HP USB Business Slim Keyboard.</li> <li>• HP USB Optical Mouse.</li> <li>• 9.5mm Slim DVD-ROM 1st ODD.</li> </ul>
Pros	<ul style="list-style-type: none"> <li>• Wired network connectivity.</li> <li>• No battery needed.</li> <li>• Accommodates application diverse needs; local and web-based applications.</li> <li>• 5 year useful life and support cycle.</li> <li>• Supports online assessments (PARCC, Acuity).</li> </ul>	<ul style="list-style-type: none"> <li>• Wired network connectivity.</li> <li>• No battery needed.</li> <li>• Accommodates application diverse needs; local and web-based applications.</li> <li>• 5 year useful life and support cycle.</li> <li>• Supports online assessments (PARCC, Acuity).</li> <li>• CD/DVD option available.</li> </ul>	<ul style="list-style-type: none"> <li>• Accommodates diverse application needs; local and web-based.</li> <li>• Performanve for high-end applications; i.e. PLTW and Business programs.</li> <li>• Wired network connectivity.</li> <li>• No battery needed.</li> <li>• 5 year useful life and support cycle.</li> <li>• Supports online assessments (PARCC, Acuity).</li> </ul>
Cons	<ul style="list-style-type: none"> <li>• Fixed device; no mobility.</li> <li>• Consumes space; classroom and desk space compared to laptops and tablets.</li> <li>• Requires dedicated room(s) w/ electrical, data drops, and possibly network equipment needs.</li> <li>• Customizing user interface.</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed device; no mobility.</li> <li>• Consumes minimal space; classroom and desk space compared to laptops and tablets.</li> <li>• Requires dedicated room(s) w/ electrical, data drops, and possibly network equipment needs.</li> <li>• Customizing user interface.</li> </ul>	<ul style="list-style-type: none"> <li>• Cost \$\$\$.</li> <li>• Fixed device; no mobility.</li> <li>• Consumes space; classroom and desk space compared to laptops and tablets.</li> <li>• Requires dedicated room(s) w/ electrical, data drops, and possibly network equipment needs.</li> <li>• Customizing user interface.</li> </ul>
Support	<p>5 year hardware support:</p> <ul style="list-style-type: none"> <li>- 3 year manufacturer warranty.</li> <li>- 2 year extended district IT hardware support.</li> </ul>	<p>5 year hardware support:</p> <ul style="list-style-type: none"> <li>- 3 year manufacturer warranty.</li> <li>- 2 year extended district IT hardware support.</li> </ul>	<p>5 year hardware support:</p> <ul style="list-style-type: none"> <li>- 3 year manufacturer warranty.</li> <li>- 2 year extended district IT hardware support.</li> </ul>
What to consider before buying:	<ul style="list-style-type: none"> <li>• Do you have, or are you willing, to dedicate a room, including furniture, for computers?</li> <li>• Additional resources like data and electrical may be needed; wire management.</li> <li>• Instructional purpose; how will the devices be used and supported?</li> </ul>	<ul style="list-style-type: none"> <li>• Do you have, or are you willing, to dedicate a room, including furniture, for computers?</li> <li>• Additional resources like data and electrical may be needed; wire management.</li> <li>• Instructional purpose; how will the devices be used and supported?</li> </ul>	<ul style="list-style-type: none"> <li>• This device should only be purchased for high performance needs.</li> <li>• Do you have, or are you willing, to dedicate a room, including furniture, for computers?</li> <li>• Additional resources like data and electrical may be needed; wire management.</li> <li>• Instructional purpose; how will the devices be used and supported?</li> </ul>




# APS Approved Technology Computing Devices - Laptops

	Standard Laptop	High End Laptop	Cromebook
<b>Model</b>	HP 640 G2 ProBook - Y2R73UP#ABA 	HP ZBook 15 G3 HighEnd Notebook - Y6R69UP#ABA 	HP Chromebook 11 G5 - X9U02UT#ABA 
<b>Cost</b>	\$548.38	\$1,016.66	\$171.02
<b>Standard</b>	<ul style="list-style-type: none"> <li>• Windows 10 64-Bit OS.</li> <li>• 8GB DDR4-2133 (2x4GB) RAM.</li> <li>• 128GB SSD.</li> <li>• 3 Year Battery Warranty Card</li> <li>• DVD-ROM.</li> </ul>	<ul style="list-style-type: none"> <li>• Windows 10 64-Bit OS.</li> <li>• 16GB DDR4-2133 (1x16GB) RAM.</li> <li>• 1TB 5400 RPM SATA Hard Drive.</li> <li>• 3 Year Battery Warranty Card</li> <li>• DVD-ROM.</li> </ul>	<ul style="list-style-type: none"> <li>• Chrome OS.</li> <li>• 4GB DDR3L-1600 SDRAM.</li> </ul>
<b>Pros</b>	<ul style="list-style-type: none"> <li>• Mobility; wireless network connectivity.</li> <li>• Multi-purpose &amp; accommodatiion of diverse needs; locally installed and web-based applications.</li> <li>• Dockable (Docking staying sold seperatly)</li> <li>• 5 year useful life and support cycle.</li> <li>• Supports online assessments (PARCC, Acuity).</li> </ul>	<ul style="list-style-type: none"> <li>• Accommodates diverse applications needs; local and web-based.</li> <li>• Performanve for high-end applications; i.e. PLTW and Business programs.</li> <li>• Mobility; wireless network connectivity.</li> <li>• Multi-purpose &amp; accommodatiion of diverse needs; locally installed and web-based applications.</li> <li>• 5 year useful life and support cycle.</li> <li>• Supports online assessments (PARCC, Acuity).</li> </ul>	<ul style="list-style-type: none"> <li>• Mobility; wireless network connectivity.</li> <li>• Perfect for dedicated web-based classrooms; Google Apps for Education.</li> <li>• Battery life; 6-8 hours.</li> <li>• Supports online assessments (PARCC, Acuity).</li> <li>• Multi-user device &amp; virus free.</li> <li>• Use with Chromecast for device steaming.</li> </ul>
<b>Cons</b>	<ul style="list-style-type: none"> <li>• Lowest battery life compared to other devices; 2-4 hrs.</li> <li>• Customizing user experience.</li> </ul>	<ul style="list-style-type: none"> <li>• Cost \$\$\$; most expensive.</li> <li>• Lowest battery life compared to other devices; 2-4 hrs.</li> <li>• Customizing user experience.</li> </ul>	<ul style="list-style-type: none"> <li>• Limited to web-based content only; no locally installed applications.</li> <li>• Limited offline capabilities; requires wireless &amp; Internet access for full functionality.</li> </ul>
<b>Support</b>	5 year hardware support: - 3 year manufacturer warranty. - 2 year extended district IT hardware support.	5 year hardware support: - 3 year manufacturer warranty. - 2 year extended district IT hardware support.	5 year hardware support: - 1 year manufacturer warranty. - 2 year extended district IT hardware support.
<b>What to consider before buying:</b>	<ul style="list-style-type: none"> <li>• Performance of wireless network.</li> <li>• The need for storage/charging carts for class use.</li> <li>• Instructional purpose; how will the devices be used and supported?</li> </ul>	<ul style="list-style-type: none"> <li>• This device should only be purchased for high performance needs.</li> <li>• Performance of wireless network.</li> <li>• The need for storage/charging carts for class use.</li> <li>• Instructional purpose; how will the devices be used and supported?</li> </ul>	<ul style="list-style-type: none"> <li>• Performance of wireless network.</li> <li>• Cannot install applications like MS Office or Adobe CS Suite; 100% web-based device.</li> <li>• Instructional support for apps.</li> <li>• NOT a staff device; should be purchased for students.</li> <li>• Instructional purpose; how will the devices be used and supported?</li> </ul>

# APS Approved Technology Computing Devices - Tablets and 2 in 1s

	Tablet		2 in 1
Model	<i>Lenovo N23 Yoga Chromebook - ZA260016US</i>	<i>HP x2 1012 - Y6R56UP#ABA</i>	<i>HP Elitebook x360 - 1VY64US#ABA</i>
Cost	 \$243.60	 \$1038.19	 \$927.70
Standard	<ul style="list-style-type: none"> <li>• Chrome OS.</li> <li>• 4GB DDR3L-1600 SDRAM.</li> <li>• 32 GB SSD</li> </ul>	<ul style="list-style-type: none"> <li>• Windows 10 64-Bit OS.</li> <li>• 8GB LPDDR3-1866 SDRAM.</li> <li>• 128GB SATA-3 TLC SSD 1012.</li> <li>• HP Advanced detachable keyboard.</li> </ul>	<ul style="list-style-type: none"> <li>• Windows 10 64-Bit OS.</li> <li>• 8GB LPDDR3-1866 SDRAM.</li> <li>• 128GB SATA-3 TLC SSD 1012.</li> <li>• Full-sized island-style, backlit keyboard.</li> </ul>
Pros	<ul style="list-style-type: none"> <li>• Mobility; wireless network connectivity.</li> <li>• Perfect for dedicated web-based classrooms; Google Apps for Education.</li> <li>• Compatible with the Google Play Store and Android apps</li> <li>• Battery life; 10-11 hours.</li> <li>• Supports online assessments (PARCC, Acuity).</li> <li>• Multi-user device &amp; virus free.</li> <li>• Use with Chromecast for device streaming.</li> <li>• 360 degree hinge.</li> <li>• Full touchscreen.</li> </ul>	<ul style="list-style-type: none"> <li>• Mobility; wireless network connectivity.</li> <li>• Comparable to MS Surface Pro</li> <li>• Light weight - 2.79 pounds (tablet with advanced keyboard).</li> </ul>	<ul style="list-style-type: none"> <li>• Mobility; wireless network connectivity.</li> <li>• Best battery life; 7-8 hours.</li> <li>• 360 degree hinge.</li> <li>• Light weight - 2.4 pounds.</li> </ul>
Cons	<ul style="list-style-type: none"> <li>• Limited to web-based content only; no locally installed applications.</li> <li>• Limited offline capabilities; requires wireless &amp; Internet access for full functionality.</li> </ul>	<ul style="list-style-type: none"> <li>• Cost \$\$\$; most expensive.</li> <li>• Windows 10 64-Bit OS - Navigation support may be limited due to "non-standard" (WIN 7) OS</li> <li>• Battery life; 4-5 hours.</li> <li>• Designed to be single, not shared, staff device.</li> </ul>	<ul style="list-style-type: none"> <li>• Cost \$\$; expensive.</li> <li>• Windows 10 64-Bit OS - Navigation support may be limited due to "non-standard" (WIN 7) OS</li> <li>• Designed to be single, not shared, staff device.</li> </ul>
Support	5 year hardware support: - 1 year manufacturer warranty. - 2 year extended district IT hardware support.	3 Year (Parts & Labor)	3 Year (Parts & Labor)
What to consider before buying:	<ul style="list-style-type: none"> <li>• Performance of wireless network.</li> <li>• Cannot install applications like MS Office or Adobe CS Suite; 100% web-based device.</li> <li>• Instructional support for apps.</li> <li>• NOT a staff device; should be purchased for students.</li> <li>• Instructional purpose; how will the devices be used and supported?</li> </ul>	<ul style="list-style-type: none"> <li>• This device should only be purchased for high performance needs.</li> <li>• Performance of wireless network.</li> <li>• The need for storage/charging carts for class use.</li> <li>• Instructional purpose; how will the devices be used and supported?</li> <li>• Instructional support for Windows 10</li> </ul>	<ul style="list-style-type: none"> <li>• This device should only be purchased for high performance needs.</li> <li>• Performance of wireless network.</li> <li>• The need for storage/charging carts for class use.</li> <li>• Instructional purpose; how will the devices be used and supported?</li> <li>• Instructional support for Windows 10</li> </ul>

## APS Approved Technology Computing Devices - Apple

	Tablet	MacBooks	
Model	9.7-inch iPad - MP2F2LL/A	MacBook Air 13" - MMGF2LL/A	MacBook Pro 13" - MF839LL/A
Cost	 \$299.00	 \$949.00	 \$1199.00
Standard	<ul style="list-style-type: none"> <li>Storage: 32GB.</li> <li>Screen Size: 9.7 inches.</li> <li>Processor: A9 64-bit SoC with M9Coprocessor.</li> <li>Up to 10 Hours Battery Life.</li> <li>Wi-Fi (802.11 ac) &amp; Bluetooth 4.2.</li> </ul>	<ul style="list-style-type: none"> <li>1.6GHz dual-core Intel Core i5.</li> <li>8GB 1600MHz LPDDR3 SDRAM.</li> <li>128GB Flash Storage.</li> <li>Backlit Keyboard</li> </ul>	<ul style="list-style-type: none"> <li>2.7GHz dual-core i5.</li> <li>8GB 1866MHz LPDDR3 SDRAM.</li> <li>128GB PCIe-based Flash Storage.</li> <li>Backlit Keyboard</li> </ul>
Pros	<ul style="list-style-type: none"> <li>Mobility; wireless network connectivity.</li> <li>Best battery life; 8-10 hours.</li> <li>Supports online assessments (PARCC, Acuity) /w keyboard &amp; headphones.</li> <li>Alternative to visualizer.</li> <li>Use with AppleTV for device streaming.</li> </ul>	<ul style="list-style-type: none"> <li>Mobility; wireless network connectivity.</li> </ul>	<ul style="list-style-type: none"> <li>Mobility; wireless network connectivity.</li> </ul>
Cons	<ul style="list-style-type: none"> <li>Limited printing capability.</li> <li>Additional resources needed for application and device management.</li> <li>Designed to be single, not shared, user device.</li> <li>Requires keyboard for typing programs.</li> </ul>	<ul style="list-style-type: none"> <li>Cost \$\$; expensive.</li> <li>Designed to be single, not shared, staff device.</li> </ul>	<ul style="list-style-type: none"> <li>Cost \$\$\$; most expensive.</li> <li>Designed to be single, not shared, staff device.</li> </ul>
Support	Limited hardware support; 1 year Apple manufacturer warranty.	***These devices will be added to the APS wireless network but it is the purchaser's responsibility to self-service all technical problems, should they occur, through the Apple Store. The APS IT department does not have the capacity to do this for you.***	
What to consider before buying:	<ul style="list-style-type: none"> <li>Need separate keyboard &amp; headphones for online assessment.</li> <li>Performance of wireless network.</li> <li>The need for storage/charging carts.</li> <li>Instructional support for apps.</li> <li>MDM solution for large iPad deployments for management purposes.</li> </ul>	<ul style="list-style-type: none"> <li>This device should only be purchased for high performance needs.</li> <li>Performance of wireless network.</li> <li>Limited technical support.</li> </ul>	<ul style="list-style-type: none"> <li>This device should only be purchased for high performance needs.</li> <li>Performance of wireless network.</li> <li>Limited technical support.</li> </ul>