

# Kid Tested and School Approved

How Lenovo solutions provide durability for K-12 education

**Can you trust a 10-year-old with a sophisticated laptop – or a 16-year-old for that matter?** How can you protect your computer equipment from dings and other damage liable to happen in a K-12 school environment, where students are still learning responsibility? One key is to **invest in PCs and mobile devices designed specifically for maximum durability.**

Sponsored by



**lenovo** FOR  
THOSE  
WHO DO.

“ We obsess over the pursuit of perfection – as evidenced by more than 20 years of Lenovo ThinkPad design and engineering accolades.

– Dilip Bhatia | Vice President and General Manager, ThinkPad Business Unit

Lenovo computers are used by millions of students worldwide in part due to their recognized ruggedness and reliability – essential qualities for K-12 environments. According to research firm VDC, rugged devices – those designed to provide better protection against vibration, shock, drops, dust and water – translate to a 40 percent improvement in annual total cost of ownership performance.

That’s why Lenovo made durability a top priority when designing its line of education-focused computers and mobile devices. Built with military grade (MIL-SPEC) toughness, these products are meant to endure the drops, dings and spills that are inevitable in any school environment. These MIL-SPEC tests show Lenovo PCs can withstand changes in temperature, altitude, thermal and mechanical shock, and dust.

Whether you are seeking laptops, tablets, desktops, or all-in-ones, you can have the confidence of knowing outstanding functionality and rock-solid reliability are at the heart of every Lenovo machine.

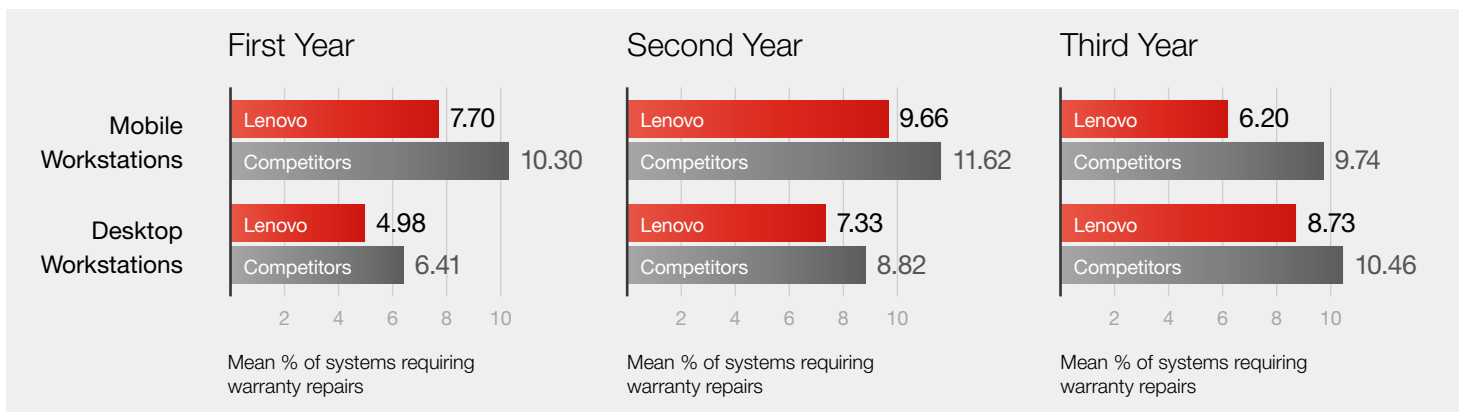
### Research shows Lenovo outperforms competitors

Technology Business Research, Inc. (TBR), a market research firm specializing in the business and financial analyses of hardware and software solutions, found Lenovo’s 1st, 2nd and 3rd year laptop and desktop PC repair rates to be lower than the competition’s in a recent study.

“ Lenovo workstations had lower than top vendor average repair rates in all three years represented in this study, leading to 16% fewer interruptions in the first year of ownership, 13% in the second year and 28% in the third year.

– Technology Business Research, May 2012

#### WORKSTATION REPAIR RATES



According to TBR’s Workstation Repair Rate Study of 2012, Lenovo products required significantly fewer repairs over a three year period than competitor devices.

## THINKVANTAGE TECHNOLOGIES STREAMLINE IT SUPPORT

If students or educators do have computer issues, Lenovo's ThinkVantage Technologies (TVT), powered by up to the 4th generation Intel® vPro™ processor family, help IT solve a range of problems remotely—from forgotten passwords to driver failures—even if the primary operating system doesn't boot.

With solutions like ThinkVantage Rescue and Recovery—a set of self-service tools to help users diagnose, get help and recover from system crashes quickly—problems are solved more quickly while calls to IT and desk-side visits are reduced.

## Key Durability Features

Here are just a few of the key durability features common across most Lenovo PCs:

- **Lenovo's ThinkPad Roll Cage** and reinforced top covers, for instance, enable it to reduce the likelihood of failure. The roll cage functions as an internal skeleton, preventing structural damage in the event of impact.
- The **reinforced top cover** helps prevent screen damage, while **reinforced hinges and a top latch** help keep the cover securely closed.
- The **ThinkPad Active Protection System (APS)** acts like an airbag to prevent data loss due to drops or bumps. With its integrated motion sensor, the ThinkPad APS continuously monitors the spinning hard drive and temporarily locks it to prevent damage if it detects a sudden change in motion.
- **Optional solid-state drives (SSDs)** reduce susceptibility to damage by reducing moving parts. As a result, the machines can withstand greater shocks without data loss.
- ThinkPad products feature **Adaptive Thermal Technology**, enabling them to run cooler than competing products and avoid the reliability issues associated with heat.
- To **protect ThinkPads from accidental spills**, Lenovo designed the ThinkPad keyboards with keys that are closer together and a drainage system that allows liquids to pass through channels underneath, ensuring system components are unaffected and the laptop remains operational.
- The products are designed for **easy serviceability** so they can be repaired quickly should a failure occur. Lenovo secures access panels on the bottom of the ThinkPads with a single screw. This provides IT support with quick access to the system's memory, wireless modules and hard drives.

## Lenovo K-12 Solutions Designed for Durability

Here are just a few of the Lenovo solutions ideal for K-12 environments:

- **Lenovo ThinkPad X131e Laptop.** With reinforced hinges, rubber bumper edges, a spill-resistant keyboard, recessed ports and Lenovo's Active Protection System™ providing internal hard drive protection, the ThinkPad X131e with up to the Intel® Core™ i3 processor is specifically designed for the wear and tear of younger students in a classroom. Intel Education Software, already preloaded on the ThinkPad X131e, helps students develop 21st-century skills such as communication, collaboration, problem solving, critical thinking and digital literacy. It also empowers educators with easy-to-use classroom management tools and offers security solutions to simplify IT.

## FUTURE-PROOF YOUR INVESTMENT

Making the most of education IT purchases means anticipating changing curricula, new testing standards and new ways to use technology in the classrooms. Lenovo offers K-12 solutions designed with the evolving education landscape in mind.

With large, high-resolution screens, ample memory and processing speed, long battery life and the ability to centrally manage browser access, these products exceed impending technology requirements of districts adopting Common Core standards or other state-mandated testing and support the broad changes that impact how technology is used for learning.

- **Lenovo ThinkPad X131e Chromebook.**™ The rugged and highly customizable ThinkPad X131e Chromebook was purpose-built for education. It offers the longest battery life and most memory available on any Chromebook, maximizing untethered learning time. With a centralized management dashboard, quick access to thousands of apps and education resources through the Chrome Web Store and built-in Google Apps for Education, the ThinkPad X131e Chromebook makes digital learning easier for students, teachers and IT administrators alike.
- **Lenovo ThinkPad Tablet 2.** A student-friendly compact form factor, 1.25 lbs. weight and up to 10 hours of battery life gives the ThinkPad Tablet 2 extreme mobility without sacrificing productivity. The vibrant, wide-view 10.1” IPS display creates a vivid and immersive viewing experience. Interactivity is intensified with five-finger multi-touch technology for a smooth tactile experience, while the optional integrated digitizer pen allows for a new way to take notes, make edits and write math and science equations.

As such examples suggest, Lenovo is fully committed to ensuring your machines are built to stand up to the demands of an educational setting and student wear and tear. Fully reliable machines translate to a lower total cost of ownership and the ability to focus on using technology to transform the classroom and enhance learning outcomes.

## Conclusion

In K-12, you need to make the most of every dollar, so the computers you choose for students and teachers need to be rugged and reliable. Computers that cost less, but break or fail when students need them, will increase your IT support costs and limit productivity. With Lenovo's dedicated and proven line of devices, you'll know you have a solution designed to absorb the shocks and stresses of every day school use.

## Sources

- Krebs, David. "Total Cost of Ownership Models for Mobile Computing and Communication Platforms," VDC Research. 2010.
- "Workstation Repair Rate Study," Technology Business Research. May 2012.