iPad and Mac in Education Results

June 2022



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Schools all over the world are using iPad and Mac to teach transformative lessons and activities, no matter where students are learning.

As teachers incorporate technology into their lessons, they empower students to be self-directed and collaborative learners. This document shares the successes that primary, secondary and higher education institutions have observed with Apple devices, both in and out of the classroom. This document highlights the results and trends that institutions using Apple products have observed. The data in this document is self-reported by the institutions — Apple wasn't involved in gathering or analysing the data and doesn't have any knowledge of the methodologies used.

Motivation and Engagement stories highlight how schools using Apple technology have smoothly transitioned to home, hybrid or asynchronous learning, as well as how technology initiatives at schools have fostered creative and accessible learning environments that continue to attract new students.

Collaboration and Feedback stories show how virtual classrooms, video chat and accessories like Apple Pencil have allowed for meaningful and personalised communication and feedback in increasingly mobile and paperless environments.

Academic Achievement stories illustrate assessment outcomes and showcase student projects that have real-world applications.

Productivity and Efficiency stories describe some of the ways that Apple technology has aided institutional efficiency and savings.

A number of school **spotlights** are included throughout, sharing stories from institutions whose results speak to more than one of these thematic categories.

Motivation and Engagement



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"Because Apple products allow them to develop professional projects, students are both encouraged and motivated to take ownership of their own learning, which creates a culture of drive."

Dana Karczewski

Principal Meadow Ridge School Orland Park, Illinois, United States A survey published by the Wall Street Journal found that student attendance rates fell in 75% of US education authorities as the 2020 academic year went on — dropping by 1.5% each month. A 2020 UNICEF report estimated that 1 billion children are at risk of falling behind. It found that government policy measures to ensure learning continuity through broadcast or digital media could potentially reach a maximum of 69% of pre-primary to secondary students globally. Access to technology helped prepare staff and students to continue teaching and learning when they were faced with the challenges of moving to home learning.

Old River School

Downey, California, United States

In this school for years 5 and 6, 76% of students are eligible for free or reduced lunches and 19.1% are English-language learners. Using iPad and MacBook, students and staff were able to smoothly transition to home learning and the school recorded a 95% attendance rate during that time.

IELEV Schools

Istanbul, Turkey

This private school for ages 5–18 began their one-to-one iPad initiative in 2016. Students from year 5 onwards use iPad and high school students use MacBook Air. Because of IELEV's vision of tightly integrating collaborative technology, students and staff were already familiar with their devices and platforms when schools moved to home learning, and 97% of students remained in attendance.



home learning attendance rate



home learning attendance rate

M.S. 442 Carroll Gardens School for Innovation

Brooklyn, New York, United States

Since 2016, this middle school has implemented a one-to-one iPad programme for all students and staff. The school now also provides access to MacBook and Apple Pencil. Technology is embedded in the curriculum and, as a means of differentiating instruction, students are given opportunities for asynchronous and blended learning with individual schedules. Part of the school's vision is to foster student independence and **motivation** through effective use of technology, and students demonstrate their understanding and **engagement** using Keynote, Pages, iMovie and coding apps.

As a result of the school's efforts to keep students connected, during the 2020–2021 academic year, students in blended and home learning environments recorded a 96% attendance rate.

In the same year, 100% of year 9 students took the high schoollevel Algebra 1 Regents Examination and **achieved** passing scores. And students in all year groups are outperforming state assessment averages in maths and language arts.

State Assessments: M.S. 442 Scores Compared with New York Averages





In July 2021, data from the National Center for Education Statistics showed that during the academic year 2020–2021, the number of students enrolled in US state schools decreased by 3%. Despite this trend, some schools have been able to continue to attract new students through their innovative learning environments and effective technology deployments.

International American School of Cancún

Cancún, Mexico

At this private school for ages 5–18, enrolment has increased annually since introducing Apple technology in 2016. The institution notes that they were one of the few schools in Cancún to offer uninterrupted teaching and learning throughout the pandemic — and the trend of growing enrolment has continued. Primary and middle school students use iPad, and each high school student is designated their own MacBook.



Student enrolment

Lewis Elementary School

Downey, California, United States

The campus at this primary age school includes an innovation and design lab where students code using the Swift Playgrounds app and a dedicated studio where they work with GarageBand, iMovie and Clips. Lewis Elementary recorded a 15% increase in enrolment from 2014 to 2020, with nearly a quarter of new students coming from the surrounding schools and education authorities. Administrators attribute this trend to the school's engaging learning environments and the opportunities that their technologies provide to students with diverse needs.



Midland University

Fremont, Nebraska, United States

In 2018, students and full-time staff at this private liberal arts college were issued iPad and Apple Pencil for teaching and learning. Academic departments at Midland incorporate iPad into lessons in a number of ways. In the nursing department, using iPad with VR headsets provides nursing students with experiential learning opportunities. As a result of this project, one staff member was invited to present on their curriculum at a 2020 conference hosted by the American Association of Colleges of Nursing.

In the three years since launching their one-to-one initiative, Midland has observed record-setting enrolment each year, with an 8% improvement in first-year retention.

In addition, 91% of students graduating in 2020 were either employed or accepted into a post-graduate studies programme within six months of graduation.

Collège du Sacré Coeur

Halluin, France

The curriculum at this private middle school includes using AR on iPad to enrich natural science studies and to help students visualise technical objects and functions in design and engineering courses. The school has partnered with a museum in a nearby city on a project where students use iPad to create interactive content with the museum and present it in a 360° video. And to empower learners with disabilities — a population that has tripled in the last nine years — educators at this school integrate iPad accessibility features into lessons.

As a result of innovative instruction at the school, surveys show that 91% of parents believe iPad has allowed for better educational continuity during periods of home learning and 96% of educators report that iPad is an indispensable tool in their teaching.



improvement in first-year retention since 2018

91%

of class of 2020 graduates were employed or accepted into a postgraduate programme within six months of graduation

96%

of teachers report that iPad is an indispensable tool in their teaching

Collaboration and Feedback

"It is our commitment to our school that no digital divide will occur. We all deserve the right to learn."

Kerry Lilico Head Teacher Stephenson Memorial Primary School, Wallsend, United Kingdom Providing opportunities to stay connected through technology is one way that schools can strive to maintain equitable and accessible education. Teachers are using collaborative documents to personalise instruction, Apple creative apps to design lessons and activities, and accessories like Apple Pencil for personalised digital feedback. In virtual classrooms and video chats, students are connecting with each other and their broader communities. On school websites and platforms like Seesaw and Showbie, students are sharing their creative work with an audience of peers,

teachers and families. And in the classroom, AirPlay lets anyone share their screen so the whole class can collaborate instantly.

Cheongwon Elementary School

Seoul, South Korea

Since the launch of the school's iPad initiative, Cheongwon students have increasingly been able to engage in self-directed classes and demonstrate their creativity through collaborative projects. The school has also hosted STEM learning camps, where Cheongwon students use Apple devices to connect with students at Seoul National University and Harvard Graduate School of Education. Administrators and IT staff note that since the introduction of Apple School Manager and mobile device management solutions, it has become more convenient for teachers to manage student accounts, purchase and install apps in bulk, and manage iPad remotely. And staff have observed that the Schoolwork app has made it easier to collect student work and assess assignments.

Highlands International School México

Ciudad de México, Mexico

This private international Catholic school for ages 5–18 began their one-to-one programme in 2014. The school produces a podcast to discuss issues in the community with a variety of guests. A 2020 survey at Highlands found that 98% of educators agree that iPad is useful in their lessons on a daily basis. And despite the challenges of home learning, the school has recorded a 96% retention rate and enrolled about 300 new students since 2020.



New enrolees



Retention rates

Shotoku Gakuen Junior and Senior High School

Tokyo, Japan

At this private high school, students are encouraged to think as global citizens. They study abroad in New Zealand and Canada to learn and practice English, giving them meaningful opportunities to experience different cultures, reflect on their place in the world and expand their views. Each student receives an iPad, Apple Pencil and MacBook to engage with their learning and connect to the world.

The school's STEAM curriculum focuses on cross-curricular problem-solving and creative output. In June 2021, the school hosted Shotoku Tech Academy to offer classes and workshops on Swift Playgrounds and app development.

Research conducted by the school in 2021 found that, as an outcome of their philosophy — including their use of technology — collaborative learning, creative learning and expressiveness among students increased over the course of the year.



Based on responses to a 2021 survey indicating degree of agreement using a five-point Likert scale.

West Ferris Intermediate and Secondary School

North Bay, Ontario, Canada

At this school for years 8 to 13, each STEAM student works with three devices: iPad, MacBook and iMac. The school has developed an iCoach class where student leaders serve as educational assistants and peer mentors. These students **collaborate** with teachers to help them create and deliver lessons using Apple apps like iMovie and Keynote. As part of West Ferris's outreach efforts, iCoach students also run workshops to teach younger learners at neighbouring schools how to use Apple technology.

iPad and Mac have provided a reliable platform that allows for **engaged** and uninterrupted learning, even when students and educators are working at home. As science and STEM teacher Bryan Brouse notes, "With Apple products it becomes quite seamless: I am getting high-quality work and students are asking me if they can do more... and that's not something I'm used to".

As an example of their learners' **achievement** supported by Apple technology, the school's STEAM students are outperforming their peers on local assessments and standardised provincial testing for years 10 and 11.

"With Apple products, it becomes quite seamless: I am getting high-quality work and students are asking me if they can do more... and that's not something I'm used to."

Bryan Brouse West Ferris Intermediate and Secondary School

Forest Trail Elementary

Austin, Texas, United States

This school for ages 5–11 has a one-to-one iPad programme for students. Teachers are equipped with iPad, Apple Pencil and MacBook, and classrooms are fitted out with Apple TV. At Forest Trail, teachers with younger students are using Apple Pencil and AirPlay in the classroom to instruct and model solutions in handwriting lessons collaboratively with the whole class, in real time.

In the most recent statewide assessments, Forest Trail students outperformed their peers in all subject areas.



East Hills Girls Technology High School

Panania, New South Wales, Australia

All students and staff at this high school use iPad and Apple Pencil. In years 11 to 13, students are assigned their own MacBook. Deputy principal and English teacher Zeinab Hammoud shares that "by using iPad and Apple Pencil, feedback becomes immediate" when marking student essays and other work, and that for students, "the transferring of information is timely, and that's powerful".

With the school's long-standing one-to-one initiative and Apple technology as a common platform, staff and students were prepared to move to home learning with ease in 2020, and they used their devices to stay connected through online events. Staff have also reported a more streamlined process for invigilating state and national assessments due to students' familiarity with their devices.

Western Primary School

Harrogate, North Yorkshire, United Kingdom

At this school for students from nursery to year 6, AirPlay has become a tool for peer learning and assessment in the classroom. As one teacher puts it, "Using AirPlay in the classroom means the children can share their work instantly and collaborate to help them improve their writing".

Staff members have efficiently integrated iPad into their lesson design and delivery. In a recent school survey, 100% of staff members surveyed agreed that iPad has helped reduce their workloads.

And parents recognise the benefits of putting a device in the hands of every learner. The same school survey found that 95% of parents agreed that iPad has increased their student's motivation. As one parent shares, "iPad has allowed our children unparalleled access to their teaching resources and ensured that they have remained engaged and motivated". "Using AirPlay in the classroom means the children can share their work instantly and collaborate to help them improve their writing".

Jesmond Gardens Primary School

Hartlepool, United Kingdom

Since 2014, every student at this primary school has used their own designated iPad. Head teacher Phil Pritchard states that "the staff and pupils' creative and innovative approach using Apple technology provides a stimulating, inspiring curriculum that empowers children to be the best learners they can be".

Teachers use iPad features like Voice Memos, and accessories like Apple Pencil to provide personalised digital **feedback** on student work. One instructor states, "I'm able to give students feedback via voice notes, and I can use my Apple Pencil which makes it much more personal because the children hear my voice, play it over again so they're fully understanding, and ultimately making my marking more effective and giving the children a better learning experience".

While the school is in a region that's among the top 10% of the most underserved areas in the country, school officials cite their innovative campus, dedicated instructors and long-standing technology integration as some of the drivers of their students' **achievement**. Upon entering school, 100% of students are below the expected standards in all areas — reading, writing and maths — but by the end of year six, 62% are at the expected standards.

Students at expected standard in all subjects



Academic Achievement

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"We are preparing students for the real world before they are even in it, thanks to Apple."

Pam Harris Hackett

Faculty Member Southern Methodist University Meadows School of the Arts, Dallas, Texas, United States

Colégio de Lamas

Santa Maria da Feira, Portugal

This independent school for ages 5–18 has seen an improvement in student motivation since introducing Apple devices in 2017 — 70% of students report feeling more motivated in creative writing projects when using iPad, and 89% report feeling happier and more gratified in their own overall learning process. Colégio de Lamas reports that, with students' increased enthusiasm and deeper learning experiences, student performance on national exams is 20% higher than the countrywide averages.



higher student performance on exams compared with countrywide averages

Haywood Early College

Clyde, North Carolina, United States

Since introducing their one-to-one iPad programme, this high school has seen student ACT composite scores improve. During that time, graduation rates have also increased — from 81% in the 2017–2018 academic year to 95% in the 2020–2021 academic year.

Graduation rate



Fairmont Elementary

Sanger, California, United States

Fairmont Elementary is located in the County of Fresno's Central Valley, a predominantly agricultural area, and their curriculum includes an agricultural STEM programme. The school has incorporated iPad into the programme's coursework as a durable and mobile device that's suitable for taking out into the field for recording, analysing and tracking plant growth.

Using iPad to collaborate and research, students at this school for ages 5–13 participated in and won the Student Spaceflight Experiments Program, competing against 85 other teams. As a result, their project was sent to the International Space Station in 2018.

Repton Al Barsha

Dubai, United Arab Emirates

At Repton Al Barsha, students work one-to-one with iPad, teachers use iPad and MacBook, and classrooms are equipped with Apple TV. Since integrating Apple devices in 2015, this private school for early learners to year nine has seen steady improvement in the percentage of students performing above average. In 2020, 90% of students were achieving above average in all subject areas. Compared with the UK average standardised score of 100 — with 115 and above considered "exceptional" — students average 116.5 in English, 116.8 in maths and 117.5 in science.





Colégio Bandeirantes

São Paulo, Brazil

At this private secondary school with more than 2,600 students, Apple Pencil has been an indispensable tool for educators. Staff use Apple Pencil to correct, comment and provide **feedback** on student work. They also use it to produce video lessons, presentations and other learning materials — and with support from the school's publication team, they've developed 5,500 digital book pages and more than 10,000 instructional videos.

Equipped with iPad, students connect and **collaborate** with peers at their school and around the world. STEAM students use design and prototyping apps to work together on project-based learning activities. Year 9 Spanish-language students use iMovie to edit and produce museum tours, then make these virtual field trips available to the school community. Students in environmental finance and impact investing courses practice listening and conversing in English by using iPad to video chat with representatives at international NGOs.

Since the school's digital initiatives began in 2014, median grades for students in years six to nine have steadily and consistently improved, demonstrating **achievement** even throughout periods of home learning.



Median grades (0–10 scale)

Colégio E.Péry and Tia Min

São Paulo, Brazil

This private school for ages 5–18 began their iPad initiative during the 2019–2020 academic year. Since then, the school has reported an 18% increase in creative activities in the classroom and 50% more collaborative activities.

The school has also incorporated iPad for reading — and since doing so, they've recorded a 155 percent increase in the number of books students and faculty have read.

In addition, with more digital resources available on iPad, Colégio E.Péry and Tia Min has been able reduce printing at the school by 85%.

Ross Middle School

El Paso, Texas, United States

This middle school for students in years 7 to 9 is the area's regional school for the Deaf. Of their students, 75% are considered economically disadvantaged and a quarter are English-language learners.

While education authority-level trends showed that student performance in highstakes exams declined significantly at the middle school level, year 9 students in Ross's Deaf Ed programme are closing the achievement gap. Using accessibility features on MacBook Air, the school's Deaf Ed instructor has updated the programme, and as a result, 100% of Deaf students at Ross passed the state academic readiness assessment in 2021 on their first attempt.

1155%

increase in books read



of Deaf students at Ross passed the state's academic readiness assessment on their first attempt in 2021

Latin American School

Monterrey, Nuevo León, Mexico

This private school for ages 5–15 credits iPad and Apple technology as essential to their success in expanding project-based learning, transitioning to home learning and implementing flipped instruction — where students watch video lectures at home to learn the material, then apply that learning to their work in the classroom.

Since the Latin American School introduced their one-to-one iPad programme in 2012, students have participated in more national and international competitions for maths, physics, creativity and design, where some students were awarded gold and silver medals. Also in that time, the school has seen an increase in the number of students awarded scholarships from prestigious local high schools — between 20 and 40% of students annually.



Students awarded scholarships from prestigious local high schools

Singapore American School

Singapore

Since 2011, students at this independent school for ages 3–18 have been assigned their own Apple devices — younger students use iPad, and middle and high school students use MacBook. Students engage with the community and stay connected to the campus — one of the largest in the world — through their personal devices, service learning and hundreds of school clubs.

In elementary school, students learn with AR and code using Swift Playgrounds. High school students are offered over 40 university-level courses. This includes over 20 Advanced Placement courses and over 20 Advanced Topic courses, which are university-level courses designed by Singapore American School staff in collaboration with university faculty.



Centennial Middle School

Yuma, Arizona, United States

Educators at this school for years 8 and 9 incorporate Apple technology for flipped instruction and video lectures, which students can watch at their own pace on their iPad devices — freeing up more time in class for them to **engage** in hands-on activities and problem solving.

The school has been able to **motivate** students to use technology responsibly, reducing disciplinary incidents related to technology by 83%. They were also awarded Common Sense School status by Common Sense Media for 2020–2022.

At Centennial, every staff member is an Apple Teacher. In terms of student **achievement**, incorporating Apple devices into flipped instruction has contributed to 100% of learners attending and excelling in university-level algebra.



of staff members are Apple Teachers



of students attend and excel in college-level algebra

Productivity and Efficiency

"The versatility and opportunities that Apple products offer our school community mean that iPad is the device of choice to support our school vision."

Lana Menadue

Digital Coach Bakewell Primary School Palmerston, Northern Territory, Australia A variety of institutions from nurseries to higher education have seen improvements in their resource savings since working with the Apple ecosystem. Digital inking, instructor-designed materials and ebooks are reducing printing and textbook costs. And having a common work platform has enhanced staff efficiency and institutional research savings.

Jakarta Intercultural School

Jakarta, Indonesia

At this private coeducational institution for ages 4–18, a 2020 school survey shows that 93% of staff, students and parents "strongly agree" or "agree" that the school's implementation of Apple technology fosters effective teaching and learning.

Sinta Sirait, the school's chief financial officer, describes how staff and student workflows employ the Apple ecosystem: "Teachers manage their daily work with Apple Classroom, students share Keynote presentations with Apple TV and we all share documents and pictures via AirDrop. Simply put: We spend no time trying to get technology to work and our focus is streamlined on learning".

High school principal Dr Clint Calzini summarises, "Our Apple one-to-one programme allows our students to focus on creativity, their passions and supporting one another, without battling technology".

Percentage of students agreeing with the statement: "iPad has had a positive impact on my learning"



Athénée Royal de Nivelles

Nivelles, Belgium

Educators at this secondary school make the most of Apple Professional Learning offerings — as well as iPad and Apple Pencil — to innovate instruction. They produce a number of ebooks, videos and other paperless teaching materials, helping the institution drastically reduce textbook and printing costs. By developing their own digital learning materials, staff members can easily modify, adapt and personalise resources for more accessible and inclusive lessons. And during periods of home learning, these instructor-created resources have made it easier for students to access content and stay connected to their learning, with 95% of courses available online.



of courses are available online

Maryville University

St. Louis, Missouri, United States

In 2015, this private college launched their iPad initiative and increased their emphasis on digital curriculum. Since then, they've successfully scaled up their programme, and they now provide students with an Apple Pencil and Smart Keyboard too.

After implementing iPad, Maryville compared software licensing costs associated with two different apps for schools. IT staff and administrators found that licensing was up to 99% cheaper for the iPad versions than the same number of licences for the PC versions.

Maryville has also seen full-time undergraduate enrolment increase significantly since providing students with iPad — up 58% from 2014 to 2021.

Malton School

Malton, North Yorkshire, United Kingdom

At this comprehensive school for students aged 11 to 18, 100% of teachers use Apple Pencil for markups and **feedback** on student work. Digital inking has transformed the school's feedback delivery and enabled teaching departments to become more **efficient** — some have even gone entirely paperless. As one teacher notes, "Apple Pencil has fundamentally changed my teaching practice. I am now 100% paper-free."

Educators have also taken advantage of the activities in support materials like Everyone Can Create and Everyone Can Code to **engage** learners. As instructor Damien Ferrari states, "The advantages of Apple and Malton School's adoption within a learning and teaching environment were abundantly clear, and I was immediately inspired to champion the accessibility and equality of opportunity afforded by iPad devices and the Everyone Can Create and Everyone Can Code curricula, which allow an individual to express themselves creatively, and the ability to learn and teach in different ways supporting diversity and learning styles." From 2020 to 2021, instructors delivered 3,860 hours of lessons using Everyone Can Create activities.

And the student outcomes speak volumes. In a 2021 school survey, 97% of students attribute their academic **achievement** to using iPad, and GCSE and A-level assessments show improved student progress since the school implemented their one-to-one iPad programme.

"Apple Pencil has fundamentally changed my teaching practice. I am now 100% paper-free."



The de Ferrers Academy

Burton upon Trent, Staffordshire, United Kingdom

This academy enrols students in years 7 to 13 across its three campuses. In the 10 years since the school deployed Apple technology, the administration has observed more efficient use of resources, and savings of more than £1 million due to moving from traditional, fixed technology to a more mobile deployment with iPad.

And now that 95% of lessons include iPad, multiple years of school survey data show that more and more students agree that iPad has had a positive impact on their learning.



in resource savings since deploying iPad

Kolbe Catholic College

Rockingham, Western Australia, Australia

At this private school for years 7 to 12, administrators are observing that lessons and lesson presentation have been streamlined since staff began using iPad instead of laptops. Jody Rubery, the school's director of professional practice and learning, notes that "by giving staff the same device that our middle school [students] use, they are now able to design better learning experiences for the students and better understand the full scope of the ways students can demonstrate their learning on iPad".

Rubery goes on to say, "The impact of iPad has been enhanced even further since 2020 with the introduction of iPad Pro for our year seven students. The addition of the keyboard and Apple Pencil have been a game changer. [And] as student capacity with iPad grows, we have noticed students naturally transfer their skills across learning areas to demonstrate their learning".

"As student capacity with iPad grows, we have noticed students naturally transfer their skills across learning areas to demonstrate their learning".

Mount Sinai College

Sydney, New South Wales, Australia

Staff at this school for ages 5–12 have integrated the Schoolwork app, flipped instruction using videos created with iPad and Apple apps, and digital markups using Apple Pencil on iPad to streamline their workflows. As one educator explains, "Having the option of flipping the classroom with video-modelled instructions and being able to give digital feedback on students' work without disrupting them can help me as a teacher reach more students".

Prescot Primary and Nursery School

Liverpool, United Kingdom

Of Prescot's population of students, 15% have disabilities and 30% are eligible for pupil premium — a government initiative in the UK intended to provide schools and underserved students with resources to close the achievement gap. As Deputy Head Lisa Seddon notes, iPad assistive features "allow these children access to all areas of the curriculum. iPad also improves their engagement to take ownership and learn at their pace... all children feel that they can access all aspects of school life, and iPad is essential for that".

Mrs Seddon speaks to the value of using iPad to help build students' literacy skills, wherever they're learning: "We've found that access to digital books raises the profile of reading in our school and also helps readers who may not have been that keen to read... Students take home over 6,000 books on their iPad every day. This is something that we could not have done before, and it has transformed our approach to reading in the school".

Equipped with ebooks and iPad accessibility features, Prescot students read nearly 16,000 books from 2020 to 2021 — and during that time, they surpassed national averages for reading expectations at all year levels.

Students read almost



books on iPad from 2020 to 2021

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Delaware State University

Dover, Delaware, United States

Over 5,050 students are enrolled at Delaware State University (DSU), and of the more than 4,300 undergraduates, 44% are eligible for Pell Grants, 99% receive financial assistance and 51% are first-generation college students; additionally, a high number of students are identified as Dreamers.

DSU's academic departments incorporate Apple devices in a number of **engaging** ways. Within the first week of computer science courses, first-year students use MacBook to program robots. Business students use iPad on the school's digital trading floor. In the department of nursing, students use iPad to learn anatomy and prepare for national certifications. In biology, 90% of textbooks and course materials are available through ebooks and open educational resources — reducing students' textbook expenses. And because of their shared platforms, students and staff have been able to more **efficiently** deliver 100% of dissertation defences virtually during home learning periods.

Through their contemporary, high-quality, low-cost education, DSU is committed to equipping all students with the skills and training to **achieve** in their future careers. The university prepares more of Delaware's teachers, nurses, social workers and accountants of colour than any other university in the state, and they prepare the most professional pilots of colour in the nation.

Since DSU began their one-to-one initiative in autumn 2018, they've seen a 6% jump in first-year student retention. As of 2021, the school's first-year student retention rate sits at 80% — more than 10 percentage points greater than the overall average of all HBCUs.

The university also credits everyone's access to common technology platforms as a major asset in streamlining and increasing research **productivity**, which has grown from \$19 million annually in 2018 to \$27 million in 2021.

Research productivity





The data shown in this document is self-reported by the institution — Apple was not involved in the gathering or analysis of the data reported, nor has any knowledge of the methodology used. This document highlights the results or trends that institutions using Apple products have observed, along with anecdotal accounts that communicate the positive impact iPad and Mac are having on instruction in the classroom.

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