Kentucky Education Technology System DISTRICT TECHNOLOGY PLAN

DISTRICT NAME	Bellevue Independent
LOCATION	Bellevue, KY
PLAN YEAR(S)	2021-2022



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Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]					
Jim Seward, District Technology Coordinator/CIO					
Alex Thompson, District Computer Technician					

Building Staff [Recommended to include principals, LMS, STC, counselors, teachers, teaching assistants, etc.]					
John Darnell, Bellevue High School Principal	Nic Skaggs, Bellevue High School Teacher				
Heather Rabe, Grandview Elementary Principal	Sara Teegarden, Grandview Elementary Instructional Coach				
Janet O'neill, Bellevue High School Teacher	Kelsey Rozankski, Grandview Elementary Interventionist				

Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]

Students [Recommended to include middle and/or high school students]

Other [parents/community members, business and nonprofit leaders, etc.]

Previous Year's Strategies Evaluation

In this section include a discussion of the previous year's strategies using the prompts below. Attempt to limit your narrative to the space provided.

The previous plan included a goal to increase the number of mobile student devices. As of the 20-21 school year, BISD is now a 1-1 district! We have iPads available for PK-3 and Winbooks for 4-12! Staff desktops have been replaced with 2-1 laptops for maneuverability around the building, as well as their classroom.

Another goal was for teachers and staff to be provided increased professional development opportunities to address their technology needs. Staff attended technology related training in the district, in the local community and at state conferences. This will continue to be an area of emphasis moving forward.

Areas of improvement?

The previous plan included a goal to implement research based instructional software into the classrooms. Although we are implementing a variety of instructional software, we need to do a better job of evaluating the instructional effectiveness of each program.

Another goal was to increase the utilization of technology to communicate with parents and the community. The district needs to continue to make this an emphasis and expand training to enable more staff to be involved in the communication efforts.

Upcoming Year's Strategies Preview

If this is the first year of a multi-year plan, this section acts more like an executive summary of the plan as a whole. If this is the second or third year of a multi-year plan then aim your discussion to any new strategies or adjustments you are planning for this year. [See <u>Technology Planning section of KETS Master Plan</u> for more information]

The 2021-2022 technology plan was developed through a collaborative effort involving Grandview Elementary and Bellevue High schools. It includes goals and strategies for addressing the Area of Emphasis identified in the KETS Master Plan.

Specific needs were determined by each school's technology committee. The committees utilized key findings to identify strengths and/or areas for improvement. The technology plan was then developed with goals, objectives and activities specific to each school.

The district plan is a compilation of each school's plan along with additional district initiatives. The DTC along with each school's administrators will monitor the implementation and impact of the plan.

Briefly discuss the major activities slated for implementation and how these activities will advance curriculum and instruction integration, student technology literacy, professional development, & technology infrastructure.

The district technology goal is to provide our students a strong foundation in the utilization of technology. For innovative and effective teaching and learning to occur, every classroom is currently equipped with interactive boards, projectors, and document cameras. The goal is to move to televisions and interactive displays. Document cameras have been replaced with a more mobile solution.

Student performance is measured through the use of online assessments such as MAP, CERT, and software specific content assessments. These tests are administered via online platforms utilizing a variety of devices.

The district communicates with parents and the larger community through the district and school websites, email, phone system, Facebook, Twitter, Infinite Campus parent portal, and the IC mobile app. We are currently working on developing a district mobile app. Our goal is to provide parents information on a 24/7 basis.

The district has an updated infrastructure with wireless connectivity, inventory management and a mobile device management solution. The wireless network will be updated in the 21-22 school year. This has resulted in a more reliable internet experience along with an increase in the use of mobile devices across the district. Our goal is to continue to increase the density of the wireless network with additional access points.

Student Voice

Personalized student learning allows students to develop deeper learning competencies including critical thinking, using knowledge and information to solve complex problems, collaboration, and communication. Capturing student input about their access to opportunities that build these competencies is key to effective technology planning. Please answer the questions in the space provided below.

We do not currently have a method to collect student voices for this purpose. The goal is to explore methods for collecting the students' voice and begin collecting this data during the 2021-2022 school year.

If you have a method to collect student voice for this purpose, reference specific data points from the collection that were useful in developing strategies for this new plan.

KETS Master Plan Areas of Emphasis

Connected to the Future Ready Framework

The Future Ready Framework identifies seven Gears to assist districts in developing a roadmap for student success through personalized student learning and collaborative leadership. The KETS Master Plan has identified 37 Areas of Emphasis connected to the Future Ready Framework and are categorized as either 1) Areas of Acceleration (AA) or 2) Areas of Improvement (AI). The "areas of acceleration" are considered big wins, successes, and major milestones of the KETS are identified for continuation work. The "areas of improvement" address emerging areas based upon growth or decline metrics, research, needs assessments, and reporting by Kentucky school districts.

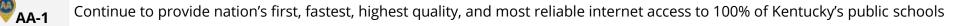
Use the Areas of Emphasis and Future Ready Framework as a lens to analyze current trends, initiatives, needs and goals of your district. Link the work of this new plan identified by your planning team to the Gears and Areas of Emphasis of the KETS Master Plan on the following pages. There is no expectation to address all 36 Areas of Emphasis of the KETS Master Plan. Any strategy that involves Erate, please include in the Budget & Resources gear. If your district has lease agreements (i.e.; device, fiber, etc.), be prepared to reference the quantity during the final submission process.

🕻 Robust Infrastructure & Ecosystem

Future Ready Gear

KETS GUIDING PRINCIPLE – A robust infrastructure is one that delivers the device, network and support needs of staff and students to create personalized learning environments using digital tools and resources.

Areas of Emphasis: Areas of Acceleration (AA) (Areas of Improvement (AI)



@АА-2

2 Continue to ensure equity and standardization for delivery of device, network, data and support creating best in class staff and student digital experiences AND provide a system of shared/brokered/managed services maintaining low infrastructure costs and providing support structures promoting the use of personalized learning environments

AA-3 Continue to create a culture of digital connectedness through all- the-time, everywhere, always on digital opportunity and access with emphasis on dense Wi-Fi throughout schools (also including home access, Wi-Fi buses, school and classroom Wi-Fi, etc.)

AA-4 Continue to encourage the use of instructional programs and administrative processes requiring cloud-based services

AI-1 Improve ease of access for students and staff through continued progress toward 1:1 student to computer ratio utilizing increased amounts of mobile devices *(fewer traditional computer labs)*

KETS AA or Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-2	Continue to implement a 5 year replacement schedule for staff and student devices	DTC	Annually	General Fund KETS	\$50,000	New devices will be ordered annually for K, 6 and 9 devices.
AA-3	Increase the density of the wireless network at BISD with additional access points and upgraded controllers	DTC Network Technician	August 2021 – May 2022	General Funds	\$95,000	Coverage areas will be better equipped for our 1-1 program.
AA-4	Continue to improve teacher use of Infinite Campus to communicate student progress by ensuring accurate setup and providing IC training	DTC IC Building Coach	Ongoing	State Provided		IC generated reports Decrease in IC related work orders PD sign in sheets
AI-1	Ongoing evaluation of current technology available to all BISD students.	Principal DTC	August 2021 – May 2022	General Fund KETS Grants Donations	\$50,000	Student devices will function effectively and efficiently.
AA-1	Upgrading existing phone system to support Kari's Law and Baum Act	DTC	August 2021	General Fund	\$30,000	Special Reporting and effective 911 location definitions.



AA-2

Data Security, Safety & Privacy

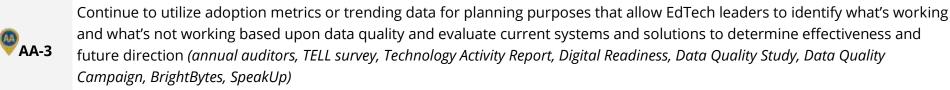
Future Ready Gear

KETS GUIDING PRINCIPLE – Security, safety and privacy of student data is a cornerstone of digital learning. Policies and procedures are enacted at the state, district and school levels that work in conjunction for this purpose. Student data are then utilized by data fluent educators for improved decision-making leading to increased learning for students.

Areas of Emphasis: Areas of Acceleration (AA) W/Areas of Improvement (AI)



Continue to identify key aspects of data security regularly to build upon the current systems, procedures and policies to remain a leader in mitigating emerging threats (acceptable use policies, firewall updates, data privacy studies, digital citizenship, content filtering)



AA-4 Continue to migrate key administrative and student data sets to secure cloud-based services that allow anywhere, anytime secure access for the improvement of student learning (Infinite Campus, Early Warning, School Report Card, MUNIS)

AA-5 Continue supporting teacher efforts in taking ownership of digital citizenship skills and education their student in the same skills to foster a secure digital learning environment

Al-1 Educate and support districts in the importance of personnel with duties related to student/staff data quality, security and privacy as well as bringing data privacy to the "radar screen" of teachers/staff (*The People Side of EdTech*)



Kentucky K-12 Data systems are first-class but we need to do much better with district using the data available to them as well as providing visual data analytic tools allowing the data to be better understood and more interesting to the average person who does not have a technology and data background

KETS AA or Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	Continue to support schools in ensuring the privacy of student data through the monitoring and refining of user IC rights	District IC Coordinator School IC Building Coaches	Annually	N/A		IC user rights report will display an appropriate but limited number of users for each tool.
AA-2	DTC will review and update the Acceptable Use Policy and the district's data privacy procedures. The Board of Education will be briefed on the district's data security procedures annually.	DTC	Annually	N/A		Acceptable Use Policy is updated and current Board of Education meeting minutes
AA-5	All students in K-5 will participate in lessons involving appropriate online behavior, social networking and cyberbullying prevention.	Elementary Media Specialist	August 2021 – May 2022	N/A		Lesson plans and observations of student use will demonstrate lessons taught.
AA-5	Teachers will instruct students on the use of technology in an appropriate, safe and responsible manner. Students will use appropriate behavior related to acceptable	Principals Teachers	August 2021 – May 2022	N/A		100% signed Acceptable Use Policy forms Lesson Plans Observations of student technology usage

	technology etiquette, internet safety and good digital citizenship.				
AA-5	All staff will be required to complete the online training modules: Email & Messaging Safety; Online Safety: What Every Educator Needs to Know	Director of Academic Services	August 2021		100% completion certificates
Al-1	Special Education Director will provide confidentiality training to all staff including data security and privacy per FERPA.	Director of Special Populations	Twice a year	N/A	Agenda from training sessions Sign in sheets with 100% staff participation



Budget & Resources Future Ready Gear

KETS GUIDING PRINCIPLE – The Master Plan, as well as district and school technology plans, are aligned to the vision of 21st century skills for students and staff. Revenue streams are aligned to account for the recurring and nonrecurring total cost of ownership to support the 21st century learning environment in a manner that reflects good stewardship of tax dollars to include devices, infrastructure, support, data and human services.

Areas of Emphasis: Areas of Acceleration (AA) 💙 /Areas of Improvement (AI) 💙

PAA-1	Continue to maximize local and state education technology expenditures through a system of shared/brokered/managed services
🖗 АА-2	Continue use of long-term planning strategies that allow for continuity of initiatives and systems (ex. Accounting for cost of ownership over the lifespan of equipment so monies are allocated for repairs/upgrades)
ФАА-3	Continue to leverage all available state and federal funding opportunities to address required basic cost of living increases, previous budget cuts of basic services, projected growth by districts (<i>e.g. Internet consumption</i>) while maximizing education technology programs and initiatives (<i>Technology Need, E-rate</i>)
🖗 АА-4	Continue to migrate key administrative and student data sets to secure cloud-based services that allow anywhere, anytime secure access for the improvement of student learning (Infinite Campus, Early Warning, School Report Card, MUNIS)
🖗 АА-5	Continue supporting teacher efforts in taking ownership of digital citizenship skills and education their student in the same skills to foster a secure digital learning environment
♥ AI-1	Make districts aware of position/roles requiring technology-related duties in support of technology and instruction (The People side of K-12 EdTech
●AI-2	Make districts aware of how to reduce expenditures on printing/print services (both in consolidated contract pricing as well as shifting from paper to digital experiences)

@_{AI-3}

QAI-4

Evaluate the need and explore new contracts that drive costs down for statewide summative online assessment, learning management systems, printing services and interim based assessments

See an increased percentage of districts examining which education technology investments are or are not being maximized

KETS AA or Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-2	Develop a long term budget based on the 5 year replacement device replacement plan	DTC Superintend ent Finance Director	Completed by April 1, 2022	General Fund Erate KETS	\$95,000	Completion of 5 year budget plan
AA-3	Continue to collaborate with district leaders to maximize available funds and consolidate funding to meet the technology needs of the district	Superintend ent DTC Director of Academics Dir. Sp. Ed. Finance Dir.	Ongoing	General Fund Erate KETS Grants IDEA	N/A	Purchase orders Finance reports
AI-1	Continue to employ a full time computer technician and look for budget opportunities to provide additional assistance for break fix needs	Superintend ent Finance Director DTC	Ongoing	General Fund	\$60000	Personnel employed
Al-1	Add additional part-time technician	Superintend ent Finance Director	Ongoing	General Fund	\$40000	Personnel employed

		DTC			
AI-4	Evaluate the usage of software purchased throughout the district to determine future funding needs	Principals Instructional Coaches	Ongoing	N/A	Usage reports will be available to determine a baseline percentage of usage for each purchased software.
AI-3	Leverage Papercut to continue to reduce monthly printing costs	DTC Finance	Ongoing	N/A	Monitor monthly reports and look for efficiency in printing.



Partnerships Future Ready Gear

KETS GUIDING PRINCIPLE – Connecting students and educators to the local and global community is a key factor to student success. The Master Plan will continue to provide opportunities for trusted relationships to build those connections as well as increase communication and transparency with shareholders, including families, districts, vendors, regional education collaboratives, postsecondary institutions and business/industry, in support of student learning and preparation beyond K-12.

Areas of Emphasis: Areas of Acceleration (AA) W/Areas of Improvement (AI)

Continue to build trusted relationships with shareholders (families, districts, partners) that will reduce risk as well as increase transparency and communication *(districts, vendors, higher-education, regional cooperatives)*

AA-2 Continue to utilize avenues of communication with shareholders allowing pertinent information and dialog to further student learning efforts (*Webcasts, BrightBytes, Technology Activity Report, KETS Service Desk, Office of Education Accountability studies, independent studies, etc.*)

@АА-З

Continue to utilize tools engaging postsecondary institutions, community members, districts and families in student learning and life after K-12 (*eTranscripts, School Report Card and Dashboard tool, Infinite Campus parent and student portal, KDE Open House, Digital Readiness Survey*)

Partner with postsecondary pre-service teacher and principal programs to provide support in candidate preparation

AI-2 Encourage postsecondary institutions to host STLP events and /or more fully maximize the opportunity to showcase the university and its programs while students are on campus

KETS AA or Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-3	Continue to utilize avenues of communication with families through technology	DTC Principals	Ongoing	General Fund	\$10000	District wide use of email, IC, website, etc., to communicate relevant information to students, parents and the community.
AA-3	Provide parent information and assistance in accessing student information through the IC parent portal (Open houses, newsletters, conferences, etc.)	Principals IC Building Coaches Teachers	Ongoing	N/A		An increase of 10% in the IC usage reports for parent accounts
AI-2	Continue to encourage STLP students to participate in the regional event held at NKU and the state event at Rupp Arena	DTC STLP Sponsor Principals	Ongoing	General Fund	\$3000	Increase in the number of STLP students Increase in the number of student projects entered into the regional STLP events
AA-1	Implement Clever, district- wide to improve security and efficiency with 3rd party vendors	DTC Principals IC Coordinator	August 2021-May 2022	N/A		Improved efficiency in log in times for students and staff. Improved database updates during summer.



Digital Curriculum, Instruction & Assessment

Future Ready Gear

KETS GUIDING PRINCIPLE – A digital learning experience is fostered by a teacher or coach with the use of rich digital instructional materials that are vetted to the rigor of Kentucky Academic Standards. A robust digital environment provides students with the opportunity to assess their own learning/progress.

Areas of Emphasis: Areas of Acceleration (AA) W/Areas of Improvement (AI)

🧼	Continue to finalize and partner with Career and Technical Education (CTE) to promote Kentucky approved K-12 Computer Science Standards and Technology/Digital Literacy Content Standards (based on International Society for Technology in Education standards) for ALL students
	Continue providing access to online assessment tools that allow teachers and administrators to assess student learning, provide timely feedback to students and make curriculum decisions (online formative assessment tools, interim based assessments, and summative assessments)
@ _{AA-5}	Continue to provide districts/classrooms access to digital instructional materials through an equitable of robust digital experience
	Identify digital content and tools (curriculum, instruction and assessment) designed to have the highest impact and value (e.g. is the technology making or not making an instructional and learning difference?), including frequency of use by teachers and students



Play a vital role in implementation of summative online assessment and school report card and dashboard tool of the new assessment and accountability system

KETS AA or Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	Read 180 and System 44 will be used to reinforce reading concepts and for RTI.	Director of Academic	August 2021- May 2022	General Fund	\$30000	Usage reports and increase in student reading proficiency
AA-1	Teachers will evaluate, select and utilize updated software in their lessons.	Director of Academic Services Principals	Ongoing	General Fund	\$10000	New and updated software Lesson plans
AA-2	Students will select and use available technology to complete assignments and projects.	Teachers Principals	August 2021- May 2022	N/A		Lesson plans Increase in technology related student projects
AA-2	All K-5 students will be introduced to coding with multiple technology devices. (Ozobots, Dash and Dot robots, Spheros, etc.)	Elementary Media Specialist	Ongoing	General Fund KETS	\$5000	Coding activities in lesson plans Classroom observations
AA-2	Teachers will develop interactive lessons to assist students in gaining confidence in the use of technology. Students will use a variety of technology to demonstrate	Teachers Instructional Coaches	Ongoing	N/A		Lesson plans Formal and informal observations Student assignments and projects

	competence in the area of technology.					
AA-2	Students will have an opportunity to expand their knowledge and experiences with technology through membership in the STLP program and elementary	STLP Coordinator Tech Club Sponsor	Ongoing	General Fund	\$2000	10% increase in club memberships Participation in local, regional and/or state events
AA-4	Students will be assessed via the Measures of Academic Progress (MAP) assessment three times a year. Teachers will interpret and utilize MAP data to drive instructional decisions.	Director of Academic Services Principals Instructional Coaches Teachers	August 2021- May 2022	General Fund	\$3500	Testing schedules Assessment results RTI documentation and schedules
AA-4	Students in grades 6-12 will use IXL and MobyMax to reinforce math/English concepts and to address RTI needs.	Principal Teachers	August 2021- May 2022	Title 1	\$3000	Usage reports Assessment results Math RTI schedules
AA-5	Students in grades K-5 will use the Lexia reading program to reinforce the ELA standards and the IXL Math program to reinforce the math standards.	Principal Instructional Coaches Teachers	August 2021- May 2022	General Funds	\$11500	Lesson Plans Usage reports Team meetings
AI-1	Evaluate, purchase and implement educational iPad applications to increase personalized learning opportunities	Principal Instructional Coaches Teachers	August 2021- May 2022	PILOT Program General Fund IDEA	\$5000	Approved Ipad apps will be available on the student iPad

AI-1	Evaluate, purchase and implement STEAM related devices and software (coding software and robots, 3D printers, etc.)	Principals DTC Media Specialists Teachers	August 2021- May 2022	General Fund Grants	\$10000	Increase in STEAM devices Lesson plans Tech club and STLP projects
AI-1	Update existing educational software and evaluate new software for implementation	DTC Network Administrator Director of Academics Principals	August 2021- May 2022	General Fund Grants	\$10000	Software will be the latest version New software will be purchased, deployed and implemented
AI-1	Maximize the use of available technology resources to engage students in project based learning and provide enriched learning opportunities	Principals Instructional Coaches Teachers	August 2021- May 2022	N/A		Lesson Plans Observations Teacher evaluations



Personalized Professional Learning

Future Ready Gear

KETS GUIDING PRINCIPLE – Digital learning expands the access to quality strategies and experiences for educators beyond the traditional methods of professional development. A culture of digital collaboration, workflow and relationships allows educators to build skill sets and instructional best practices with colleagues globally. This approach of increased access and flexibility for professional learning ultimately leads to greater success for students.

Areas of Emphasis: Areas of Acceleration (AA) W/Areas of Improvement (AI)



Continue building a culture of digital collaboration and connected digital relationships that allow administrators to support and encourage the use of digital tools by staff for professional learning

Al-1 Provide district with guidance and support to determine crucial learning needs of teachers resulting in more professional learning opportunities related to digital learning tools

KETS AA or Al	Strategy	Person(s) Involved	Anticipated Timeframe		Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	Teachers' and administrators' technology literacy will be assessed per the district evaluation instrument and professional development needs will be identified.	Superintend ent Director of Academic Services Principals	Ongoing	N/A		A list of identified needs for technology related PD will be developed. Professional development opportunities will be provided based on needs.
AA-1	Instructional coaches will collaborate and train	Instructional Coaches	Ongoing			Lesson plans and classroom observations will provide evidence

	teachers to integrate instructional technology in delivering the curriculum.					of increased technology integration.
AA-1	Teachers will be provided opportunities to attend technology related training and the KySTE conference.	Director of Academics DTC Principals	August 2021-May 2022	PD Funds KETS General Fund	\$5000	Documentation of attendance at technology related trainings and conferences
AI-1	A needs assessment will be completed to determine the technology professional development needs in order to provide effective technology utilization	Principals	August 2021-May 2022	N/A		Teacher survey will be completed List of identified technology PD needs
AI-1	Training will be provided on television/interactive displays, miracasting,, document cameras and other classroom technologies. Instructional coaches will be available to provide ongoing assistance.	Principals Instructional Coaches	August 2021-May 2022	N/A		Lesson plans Classroom observations Training sessions
Al-1	New pk-3 elementary teachers will attend training on how to effectively personalize learning with iPads. The instructional coaches will collaboratively work with teachers to identify and implement the most effective instructional iPad apps.	Elementary Instructional Coaches	Ongoing	PILOT Program General Fund	\$5000	Lesson plans Instructional coach team meetings New instructional iPad apps purchased, deployed and utilized

effectiv instruct purchas (Read 1 Edgenu MobyM	rely implementing tional software sed by the district.	Director of Academic Services Principals Instructional Coaches	Ongoing	PD Funds	\$5000	PD sign in sheets Increase utilization of software as evidenced by usage reports
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Use of Space & Time Future Readv Gear

KETS GUIDING PRINCIPLE – The personalized learning environment for students requires reimagining the use of school space and time. Virtual instruction, cloud-based learning tools, digital instructional material, digital collaboration, digital workflows and digital relationships, etc., assist in providing the vehicle for anywhere, anytime learning.

<u>Areas of Emphasis: Areas of Acceleration (AA)</u> \forall /Areas of Improvement (AI)



Continue to provide guidance, support and resources for districts in the development and application of high quality AA-1 online/virtual coursework as well as implementation of learning management systems

Educate and support districts in the implementation and facilitation of digital learning tools and portable technologies that AI-1 foster anywhere, anytime access for staff and students

KETS AA or Al	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	Expand course programs and offerings through a digital online learning platform	Director of Academic Services BHS Principal	August 2021-May 2022	General Fund	\$15000	Increased number of students participating in and successfully completing Edgenuity courses
AI-1	Increase teacher knowledge and use of the Google learning applications	Director of Academic Services Principals Teachers	Ongoing	N/A		An increased number of teachers will use the Google Suite of tools to collaborate with colleagues and students