

Cook County School District 104
Technology Integration Plan
2015 – 2017

Cook County School District 104
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Section I: Purpose

Under the direction of the school board and the administration of Cook County School District 104, a Technology Integration Plan was initially crafted during the 2014-2015 school year and has been annually reassessed thereafter in order to address the changing educational landscape and the urgent and compelling need to integrate the district's educational community with innovative and technologically-driven learning opportunities. New standards have resulted in a comprehensive reconsideration of how students acquire, interact with and create new understandings. The integration of technology is a critical consideration in properly preparing all students for their continued education as well as ultimately entrance into a global workforce and into the ranks of a digitally-empowered and responsible citizenry.

Careful consideration of the professional literature in the field of educational technology indicates an anticipated need to provide more digitally-enriched learning environments for our educational community. This must include technologically-driven assessment systems as well as reliable and consistent access to an internet-ready device both in and outside of the district's buildings in order to facilitate necessary communication, collaboration, creation and learning at all times. The district's curriculum, professional development, planning and budget must adequately prepare for and address these needs moving forward into a changing educational landscape.

The proposed **Technology Integration Plan** approaches the challenge of preparing all stakeholders for their critical roles in meeting the district's stated mission: *"to promote and instill the love of learning."* The Cook County School District 104 Technology Integration Plan is founded on 5 Pillars, which drives innovation in technology through realization of five global objectives:

1. Access – All stakeholders will be ensured consistent, reliable and constant access to digital learning environments as well as other technological resources critical to their work.
2. Curriculum – The educational community will be provided with a comprehensive, organic and technologically-integrated system of curriculum, instruction and assessment.
3. Professional Development – All stakeholders will be afforded access to a robust and on-going system of professional learning and reflection specifically targeting their particular needs.
4. Global Citizenship – All members of the educational community will be supported in their participation in a global citizenry that embodies ethical and purposeful use of technological resources and digital learning environments.
5. Leadership and Infrastructure – Sufficient resources will be dedicated to the maintenance, upgrade and support of the technological infrastructure such that all components of the Technology Integration Plan may be met in a timely and efficient manner.

The proposed Technology Integration Plan includes strategic SMART goals driven by these overarching objectives and includes activities through the summer of 2017. The standing Technology Integration Committee will continue to develop subsequent SMART goals to extend into subsequent fiscal years.

Membership

The Technology Integration Plan Steering Committee was formulated during the 2014-2015 school year to prepare a draft version of the Technology Integration Plan for consideration by the board of education and administration. The committee membership represented a wide range of stakeholders charged with crafting a plan that would address the needs of the entire educational community. Membership included:

Cook County School District 104 – Technology Integration Plan

Staff Member	Assignment	Role
Jon Baricovich	Director of Assessment and English Learner Programming	Committee Co-Chair
Tim Willis	Director of Technology	Committee Co-Chair
Amanda Deaton	Principal, Walker Elementary	Member
Nancy Ocampo	Special Education, Graves	Member
Nikolas Piltawer	ELL, Graves	Member
Katie Dunn	Pre-K Coordinator	Member
Carlos Perez	Educational Technology Instructor, District	Member
Rachel Marroquin	4 th Grade, Walsh	Member
Gabriela Parra	Paraeducator, Wharton	Member
Melissa Sinclair	Interventionist, HMS	Member
Bethany Kozal	6 th Grade, HMS	Member
Kevin Pacheco	Parent Liaison	Member

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Section II: Demographics

Demographics – Cook County School District 104 serves the communities of Summit, Bedford Park and Bridgeview Gardens located adjacent to the city of Chicago, in the southwest suburbs. The community enjoys a culturally, linguistically and economically diverse student population. Illinois State Report Card data report demographic information for the 2015-2016 school year below (Source: Illinois Report Card – www.illinoisreportcard.com):

Cook County School District 104 - Demographics				
School/Grade Levels Served	Total Population	Percentage Low Income	Percentage EL	Percentage SPED
Graves Elementary (PK-4)	534	68.7%	69.3%	14.9%
Heritage Middle School (6-8)	569	74.6%	11.2%	14%
Walker Elementary (K-4)	193	52.6%	30.2%	14.9%
Walsh Elementary (K-4)	337	57.2%	48.4%	12.8%
Wharton 5th Grade Center (5th)	203	82.7%	10.7	14.3%

Cook County School District 104 - Ethnicity				
School/Grade Levels Served	Percentage Hispanic	Percentage White	Percentage African-American	Percentage Asian
Graves Elementary (PK-4)	93.2%	2.4%	1.5%	0.9%
Heritage Middle School (6-8)	79.5%	10.0%	6.5%	1.6%
Walker Elementary (K-4)	50.7%	23.7%	17.2%	0.9%
Walsh Elementary (K-4)	78.3%	11%	4.5%	3.7%
Wharton 5th Grade Center (5)	80.6%	10.2%	4.1%	1.5%

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As demonstrated by demographic data provided by the Illinois state board of education, the district evidences high incidences of students living in poverty as well as students in developmental stages of English language development. The district’s identification of students with disabilities is slightly higher than the state average. The district also benefits from a wealth of cultural diversity, which is viewed not as a challenge, but as an asset to be leveraged to enrich existing educational programming. These conditions guide and inform the district’s strategic plan to integrate technology into the community at large. The strategic technology integration plan must consider the specific socio-economic, socio-cultural and socio-linguistic context in which the district exists in order to achieve its defined objectives.

Cook County School District 104 – Teacher Characteristics				
Avg. Tenure (2012)	% Teachers with Bachelor’s Degree	% Teachers with Master’s Degree	Avg. Teacher Salary	Pupil:Teacher Ratio
14.5 yrs.	20.2%	79.8%	\$58,448	18.6

State of Illinois – Teacher Characteristics				
Avg. Tenure (2012)	% Teachers with Bachelor’s Degree	% Teachers with Master’s Degree	Avg. Teacher Salary	Pupil:Teacher Ratio
12.9	38.4	61.1	\$62,609	18.4

The districts instructional workforce is, when compared to the state average, more experienced, more educated and less compensated. Additionally, the district’s schools are understaffed as compared to the State average.

Academic Achievement

The district employs a systematic infrastructure to measure its students’ academic achievement. In addition to participation in a comprehensive battery of state-mandated assessments, the district also utilizes NWEA MAP assessment in grade levels K-8 to measure student growth in the areas of Reading and Mathematics. The district has found greater stability in the use of MAP data to make programmatic and instructional recommendations given the timely availability of data and the stability in the assessment itself as compared to the PARCC assessment. As such, the district relies heavily upon NWEA MAP as its benchmark assessment for academic achievement and growth. Find here a MAP district summary report which indicates stable student growth in both Reading and Mathematics for the 2015-2016 school year:

Graves Elementary - By Cohort						
	Reading			Math		
	Fall 15	Winter 16	Winter Norm	Fall 15	Winter 16	Winter Norm
K		144.2	149.9		142.7	150.2
1	152.7	161.5	171.5	152.5	165.4	173.8
2	166.7	172.8	184.2	174.1	180.7	186.4
3	179.5	188.9	195.6	184.7	194.6	198.2
4	195.8	202	203.6	197.9	206.8	208.7

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Walsh Elementary - By Cohort						
	Reading			Math		
	Fall 15	Winter 16	Winter Norm	Fall 15	Winter 16	Winter Norm
K	135.9	145.9	149.9	131.9	144	150.2
1	155.9	163.8	171.5	158.5	165	173.8
2	169.6	176.5	184.2	171.5	178.4	186.4
3	183.1	188.8	195.6	184.8	192.2	198.2
4	198.9	202.2	203.6	200.5	203.8	208.7

Walker Elementary - By Cohort						
	Reading			Math		
	Fall 15	Winter 16	Winter Norm	Fall 15	Winter 16	Winter Norm
K	138.8	144.1	149.9	136.1	141.1	150.2
1	158.4	168.6	171.5	159.7	171.4	173.8
2	178.5	183.8	184.2	189.9	187.9	186.4
3	188.8	191.5	195.6	189.6	194.2	198.2
4	192.6	197.2	203.6	194.2	201.6	208.7

Wharton 5th Grade Center - By Cohort						
	Reading			Math		
	Fall 15	Winter 16	Winter Norm	Fall 15	Winter 16	Winter Norm
5	201.3	207.1	209.8	203.6	211.4	217.2

Heritage Middle School - By Cohort						
	Reading			Math		
	Fall 15	Winter 16	Winter Norm	Fall 15	Winter 16	Winter Norm
6	207	209.3	214.2	208.5	212	222.1
7	215.3	218.7	216.9	215.9	220.4	226.1
8	217.3	219.1	219.1	221.6	223.9	229.1

The data indicates that overall students in the district are making consistent growth in both Reading and Mathematics. The largest growth in Reading is evidence in the primary cluster with a predictable gap closure (as compared to national norms) by the middle school years. In Mathematics, the district has demonstrated less aggressive growth with some targeted areas of need identified in the intermediate grades and at the middle school.

Student growth and achievement data informs the district’s technology plan in considering factors such as professional development needs and curricular supports including instructional programming as well as processes to promote collaboration and professional learning.

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Literature Review

The technology steering committee conducted comprehensive review of multiple research-based studies regarding best practices in educational technology, trends in the field of digital curriculum, development in technology hardware and software and other topics germane to the local efforts to responsibly prepare for technology integration. Additionally, a number of other activities were performed to best equip the committee to make informed decisions regarding technology integration including conducting site visits to other school districts, attending webinar trainings and consultation with other district leadership.

Examination of the extant literature in this area cautions against a rapid integration of technology without appropriate infrastructural, administrative and professional development supports. The committee has determined that a comprehensive support structure will be critical to see to the success of the technology integration plan. This includes appropriate technology infrastructure, including network capacity, wifi connection, devices, a well-articulated professional development program for all stakeholders and ample financial resources to support long-term implementation of the plan.

An exhaustive list of research articles reviewed in formulating the plan may be accessed in the appendix.

Needs Assessment

The technology steering committee annually administers a needs assessment of all stakeholders within the district to ascertain the needs of each individually and to formulate activities, trainings and professional development programs to meet all stakeholder needs. Initial consideration of administrative and instructional staff will guide formulation of internal and external professional development programming. Subsequent analysis of parent and student data will guide formulation of instructional and parent involvement activities. A synopsis of the administrative and instructional needs assessment is included here:

Administrative

- 100% of responding administrators state they are at a proficient to expert level as it pertains to technology competency
- 100% reported leveraging multiple devices, web based resources, and cloud services to perform administrative work
- Current computer labs and laptop/ipad carts are used by teachers on a weekly or daily basis
- Professional Development needed for clerical and custodial staff includes Microsoft Office, PowerSchool, and SchoolDude
- Professional Development needed for teachers includes speech to text, Office365, MyON, technology use for assessment and differentiated instruction.
- Full integration of technology requires more available devices and increased supporting infrastructure.

Instructional Staff

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A principal focus for year 2 of the technology integration plan will be to meet the emerging needs of the instructional staff in the areas of curriculum, instruction and assessment. To that end, an exhaustive survey of staff needs was delivered to all instructional staff. The results of that survey are detailed below.

	Word Processing	PowerPoint	Excel	Evaluation of Curricular Materials	Technology Use for Presentation	Tech-Integration in Lesson Design	Tech-Integration in Assessment	Parental Communication
Mastery	84%	70%	32%	30%	52%	40%	26%	56%
Proficient	12%	12%	30%	38%	32%	36%	46%	28%
Less Than Proficient	2%	6%	26%	22%	12%	12%	18%	8%
Novice	2%	12%	12%	10%	4%	12%	10%	8%

Analysis of response data reveals perceptible trends in teacher technology use and professional development needs. Teachers indicate a need for more devices as well as specific applications and programs for presentation and classroom management. Self-reported professional development needs include simple training in application and platform use as well as more advanced technology needs like movie making and website construction. Teachers consistently cite connection speed, reliability of equipment and deployment of devices as challenges that the district needs to address.

Instructional Support Staff

- 65% of responding paraprofessionals state that they are at a proficient level as it pertains to technology competency
- 70% reported leveraging multiple devices, web based resources, and cloud services to perform their work as a paraprofessional
- Professional Development requests include Internet research, administering electronic assessments, and supporting technologies in the classroom

Section III: Technology Mission and Vision Statements

Technology Mission Statement:

Cook County School District 104 provides members of the educational community with consistent access to a vibrant, technologically-driven learning space in order to create multiple and varied opportunities that support teaching and learning, multi-dimensional communication, deep inquiry, and critical examination and thoughtful confrontation of the challenges of the 21st century. The district expects a strategic, purposeful and proficient integration of technology into every aspect of its work in order to support the stated mission of preparing students for ethical and productive participation in a global economy and society.

Technology Vision Statements:

Curriculum

The Cook County School District 104 Technology Integration Plan ensures the development and articulation of a technologically-infused, standards-driven, dynamic and evolving curriculum and assessment infrastructure that promotes creativity and innovation, collaboration and communication, critical thinking and problem solving, research and information fluency and the development of technology operational and conceptual knowledge.

Professional Development

The Cook County School District 104 Technology Integration Plan ensures that all members of the educational community have access to sustained, on-going and targeted professional development focused on technology integration in order to fully realize their responsibilities and potential as contributors to the learning organization.

Access

The Cook County School District 104 Technology Integration Plan ensures that all members of the educational community have consistent and reliable access to a dynamic technology infrastructure in order to create a dynamic, transcendent learning space that promotes organizational mission of preparing students for a global economy and society.

Digital Citizenship

The Cook County School District 104 Technology Integration Plan ensures that all members of the educational community join in active participation in a global,

digital citizenry in order to reflect upon and confront the challenges of the 21st century.

Leadership and Infrastructure

The Cook County School District 104 Technology Integration Plan ensures a strategic integration of technology into all facets of its work in order to create and support diverse opportunities for organizational growth, learning as well as the development of technological leadership to meet the demands of a changing workforce.

The Cook County School District 104 Technology Plan ensures a fiscally responsible leadership structure empowered to make critical decisions in order to support the district’s mission and vision.

The Cook County School District 104 Technology Integration Plan ensures provision of sufficient resources to maintain and support the local network and internet infrastructure, telecommunications equipment, computers, printers and copiers as well as necessary software, web-based curricular resources and assessment systems, supplies and other required services.

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YEAR 1 (2015 – 2016) Technology Integration Plan Goals and Action Items:

In order to execute necessary action items in each area of focus, a number of SMART goals with related action items are developed to further the purpose of the plan. SMART goals are Strategic and Specific, Measurable, Attainable, Results-Oriented and Time-based. The following SMART goals and related action items will be delivered during year 1 of the implementation. Subsequent SMART goals will be formulated for years 2 and 3 as the plan undergoes further revision.

Curriculum Focus Area: The Cook County School District 104 Technology Integration Plan ensures the development and articulation of a technologically-infused, standards-driven, dynamic and evolving curriculum and assessment infrastructure that promotes creativity and innovation, collaboration and communication, critical thinking and problem solving, research and information fluency and the development of technology operational and conceptual knowledge.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 1: Develop and publish a local, standards-driven technology curriculum for all students in grades K – 8 targeting the development of defined technology operational and conceptual knowledge in all contexts for learning.

Required Actions: Write and distribute local technology curriculum using ISTE standards for learning to be delivered by educational technology staff as well as general education staff. Curriculum will be mapped to extant curriculum maps integrated with Illinois Standards for learning in Language Arts, Mathematics and Science. Curriculum draft process will include research in existing technology integration practices, ISTE developed student profiles as well as an external, independent review for purposes of validity.

Budget: \$2,500 (stipends for curriculum drafting)

Funding Source: Title I (\$2,500)

Timeline: Draft curriculum ready for distribution and review by end of Fall semester 2015. Final curriculum ready for distribution for the beginning of the 2015-2016 school year.

Accountability: Curriculum presentation and review due to administration, committee and school board by December 2015. Final curriculum draft publication distributed to all staff in summer 2015.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 2: Ensure appropriate and equitable staffing for educational technology teachers across the district such that all students have access to technology instruction at least twice per week and that teachers have access to technology integration and coaching support.

Required Actions: Hire additional 2.0 FTE educational technology staff at the elementary level and 1.0 FTE at the middle school level to increase consistency and intensity of technology integration for the 2015-2016 school year. Restructure middle school schedule to ensure that all student have access to technology curriculum. Draft job description of educational technology teachers that includes direct technology instruction for students, co-teaching and coaching supports as well as curriculum and assessment responsibilities.

Budget: \$180,000 in salary and fringe benefits

Funding Source: Local funding (\$180,000)

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Timeline: Present additional staffing needs to the board of education in spring of 2015. Recruit and place qualified staff for the 2015-2016 school year.

Accountability: Presentation of staffing deployment and curriculum integration to the administration and the committee prior to the beginning of the 2015-2016 school year.

Access Focus Area: The Cook County School District 104 Technology Integration Plan ensures that all members of the educational community have consistent and reliable access to a dynamic technology infrastructure in order to create a dynamic, transcendent learning space that promotes organizational mission of preparing students for a global economy and society.

Strategic Action Item 1: Provide a consistent, stable and reliable internet connection at all times within all district buildings for staff and student use by the inception of 2015 – 2016 school year.

Required Actions: Upgrade existing Wi-Fi equipment with higher level multi antennae enterprise equipment in order to improve wireless density equitably in each building.

Budget: \$200,000

Funding Source: Local funds (\$200,000) (E-rate expected to return 85% of these funds near end of 15-16 FY.)

Timeline: Diagnostic survey completed in Summer of 2014. Upgrade to Ruckus high density enterprise Wi-Fi system during summer of 2015.

Accountability: Findings report due to committee, administration and board of education at the conclusion of summer work in August of 2015.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 2: Increase the ratio of devices to students from current deployment of 7:1 to 1:1 in 4 of 8 classrooms at Wharton 5th grade center and within the Math department at Heritage Middle School. Additionally, deploy existing devices and purchase additional devices to ensure deployment of 4:1 in grades K – 4.

Required Actions: Deploy current devices in appropriate proportionality. Purchase of approximately 365 additional units by the end of school year 2015 – 2016.

Budget: 365 devices x approx. \$300/unit = \$109,500

Funding Source: Title grants (Title I: \$50,000), Technology Budget (\$30,000), State funded TBE/TPI funds (\$30,000)

Timeline: Redeployment of current devices during summer of 2015. Purchase of required additional devices with deployment plan for targeted 1:1 environments for fall of 2015. Purchase of additional devices for 4:1 implementation in grades K-4 during first quarter of 2015-2016 school year.

Accountability: Deployment report due to committee at the end of summer 2015. Purchase report due to committee in December of 2015 and in August of 2016.

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Professional Development Focus Area: The Cook County School District 104 Technology Integration Plan ensures that all members of the educational community have access to sustained, on-going and targeted professional development focused on technology integration in order to fully realize their responsibilities and potential as contributors to the learning organization.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 1: During the 2015-2016 school year, provide to all parents a series of strategic workshops designed to increase their basic technological literacy, increase their capacity to support the learning of their children and to create efficient means of communication between home and school.

Required Actions: Design and develop quarterly parent technology workshops to meet with program objectives including a review of basic technology literacy (computing, keyboarding, application and internet), an introduction to digital curriculum products (Think Central, MyNgConnect, MyOn, etc.) and establishing communication through email, social media and the district's local student information system (PowerSchool).

Budget: 4 Workshops at the district-level during the 2015-2016 school year (\$200 for materials/meeting, \$500 for staff stipends/per meeting = \$2,800)

Funding Source: Title Grants (Title I, Title III)

Timeline: 4 meetings held quarterly beginning in the 2015-2016 school year and in each subsequent year.

Accountability: Presentation of presentation outline to committee and administration as well as post-participation feedback survey results.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 2: During the 2015-2016 school year, develop a professional development strand for all staff (differentiated by stakeholder) in order to increase capacity in utilization and deployment of technology.

Budget: \$5,000 for purchased services in on-site, professional development during district sponsored professional development programming. \$2,000 for substitute teachers to cover staff conducting site visits and peer observations.

Funding Source: Title Grants (Title I, Title II, Title III)

Timeline: Professional development to be comprised of various activities on-going throughout the 2015-2016 school year. Each professional institute day will include a focus on educational technology. Targeted 1:1 implementation cohort will also have access to external and on-site workshops as well as participate in a specific Tech Professional Learning Community.

Accountability: Comprehensive professional development plan to be formulated and delivered to the administration and board of education for review in August of 2015.

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Digital Citizenship Focus Area: The Cook County School District 104 Technology Integration Plan ensures that all members of the educational community join in active participation in a global, digital citizenry in order to reflect upon and confront the challenges of the 21st century.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 1: Ensure that all students have specific and sustained instruction pertinent to ethical use of technology within educational settings during the 2015-2016 school year.

Required Actions: Develop a series of standards-driven presentations to be delivered to all students in the system on a quarterly basis touching upon the ideals of ethical technology use, safe use of the internet and cyberbullying. Presentations to be integrated into PBIS goals and objectives by building and to be developed by the curriculum department and delivered by the educational technology staff and social workers.

Budget: \$1,000 (Stipends for drafting and delivery of presentations)

Funding Source: Title I (\$1,000)

Timeline: Presentations to be delivered quarterly in each building.

Accountability: Presentations to be delivered to building level PBIS teams, administration and committee prior to distribution. Post-participation survey data to be presented to PBIS teams, administration and committee. Presentations and relevant documents to be posted to website and internally to Office 365.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 2: Development of a clear and consistent definition of Digital Citizenship suitable for publication for all stakeholders.

Required Actions: Review of current literature and resources defining digital citizenship. Publication of district-defined definition of digital citizenship by stakeholder including expectations, behaviors and resources.

Budget: \$500 (Stipends for committee work)

Funding Source: Title I (\$500)

Timeline: Research conducted during the fall of 2015. Publication of Digital Citizenship standards and expectations for review in January of 2016. Full publication and adoption for the 2016-2017 school year.

Accountability: Presentation of research to the committee, board and administration in Fall of 2015. Presentation to internal stakeholders for review in Winter of 2016. Presentation and formal adoption in the summer of 2016 for publication in 2016-2017.

Leadership and Infrastructure Focus Area: The Cook County School District 104 Technology Integration Plan ensures a strategic integration of technology into all facets of its work in order to create and support diverse

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opportunities for organizational growth, learning as well as the development of technological leadership to meet the demands of a changing workforce.

The Cook County School District 104 Technology Plan ensures a fiscally responsible leadership structure empowered to make critical decisions in order to support the district’s mission and vision.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 1: Integration of technology goal into professional supervision and evaluation process during goal setting for all certified staff.

Required Actions: Develop a series of acceptable technology goals to be distributed amongst the certified staff in order to serve as models for best practices in educational technology.

Budget: \$0

Funding Source: NA

Timeline: All certified staff will develop a technology integration goal to incorporate into their professional evaluation during the 2015-2016 school year and in each subsequent year.

Accountability: Development of sample technology goals to be formulated during the summer of 2015 and distributed to all certified staff at the beginning of the 2015-2016 school year.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 2: Development of exemplar “technology capacities” for instructional staff throughout the district in order to communicate shared expectations for the use of technology.

Required Actions: Review ISTE standards to develop a series of technology capacities to be demonstrated by instructional and administrative staff. Integrate technology capacities into a standard interview protocol for prospective teachers.

Budget: \$500 (Stipends for committee work)

Funding Source: Title I (\$500)

Timeline: Formulation of technology capacities during the summer of 2015 with distribution to staff at the beginning of the 2015-2016 school year. Delivery of standardized interview protocol for the beginning of the 2015-2016 school year.

Accountability: Delivery of technology and capacities and interview protocol to administration in August of 2015.

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YEAR 2 (2016 – 2017) Technology Integration Plan Goals and Action Items:

In order to execute necessary action items in each area of focus, a number of SMART goals with related action items are developed to further the purpose of the plan. SMART goals are Strategic and Specific, Measurable, Attainable, Results-Oriented and Time-based. The following goals and action items are formulated to meet the evolving needs of the district and community in year 2 of the technology integration plan:

Curriculum Focus Area: The Cook County School District 104 Technology Integration Plan ensures the development and articulation of a technologically-infused, standards-driven, dynamic and evolving curriculum and assessment infrastructure that promotes creativity and innovation, collaboration and communication, critical thinking and problem solving, research and information fluency and the development of technology operational and conceptual knowledge.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 1: Develop a STEaM (Science, Technology, Engineering, Arts and Mathematics) curriculum for all students in all buildings.

Required Actions: Draft, review and publish a viable and guaranteed curriculum for all students in grades Kindergarten – 8th grade in the area of STEaM. Disseminate and post for review, reflection and comment.

Budget: None

Funding Source: NA

Timeline: Curriculum to be delivered to all STEaM teachers and staff at large prior to the beginning of the 2016-2017 school year.

Responsible Individual(s): Curriculum Department

Accountability: STEaM curriculum to be disseminated electronically to all instructional staff and administration prior to the beginning of the 2016-2017 school year.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 2: Ensure appropriate and equitable staffing for all 5 district buildings such that all students receive instruction guided by STEaM curriculum on a weekly basis across the district.

Required Actions: Hire additional 4.0 FTE educational technology staff across the district to ensure delivery of STEaM curriculum for all students in grades K - 8. Draft job description of STEaM teachers that includes direct technology instruction for students, co-teaching and coaching supports as well as curriculum and assessment responsibilities.

Budget: \$300,000 salary and benefits for 4.0 FTE STEaM Instructors at Heritage Middle School, Wharton 5th Grade Center, Walsh Elementary and Graves Elementary School. (Walker STEaM instructor was hired during the 2015-2016 school year).

Funding Source: Local Funding

Timeline: STEaM positions to be posted in the spring of 2016 and hired prior to the beginning of the 2016-2017 school year.

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Responsible Individual(s): District Administration

Accountability: Staffing and hiring update due to the superintendent and administration during the summer of 2016.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 3: Establish technology-delivered curriculum to all middle school students in Mathematics.

Required Actions: Identification and adoption of new Mathematics curriculum at the middle school.

Budget: \$40,000 in purchase of instructional materials and professional development services provided by Carnegie Learning.

Funding Source: Local Funding

Timeline: Adoption of curriculum during the 2015-2016 school year. Provision of training during the summer of 2016 school year.

Responsible Individual(s): Curriculum Department and Heritage Middle School Administration

Accountability: Curriculum update due to the superintendent and middle school administration during the summer of 2016.

Access Focus Area: The Cook County School District 104 Technology Integration Plan ensures that all members of the educational community have consistent and reliable access to a dynamic technology infrastructure in order to create a dynamic, transcendent learning space that promotes organizational mission of preparing students for a global economy and society.

Strategic Action Item 1: Increase the ratio of devices to students from current deployment of 2:1 to 1:1 at Wharton 5th grade center. Increase the device to student ratio at Heritage Middle School to 2:1 within the Mathematics cluster. Increase the ratio of devices at each Elementary site to 4:1 at the K-4th grade level.

Required Actions: Purchase of approximately 275 additional units and appropriate storage, protection and charging units by the beginning of school year 2016 – 2017.

Budget: 275 devices x approx. \$300/unit = \$82,500

Funding Source: Title grants (Title I: \$40,000), Local Technology Budget (\$32,500)

Timeline: Purchase of new devices and storage, protection and charging units during the summer of 2016.

Responsible Individual(s): Technology Director and District Administration

Accountability: Purchase and deployment report due to committee at the end of summer 2016.

Strategic Action Item 2: Increase access and reliability of technology to instructional staff to increase efficiency and opportunities for technology integration into instruction and assessment.

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Required Actions: Renewal of rolling lease of devices for staff use for everyday duties including instruction, assessment and data processing and analysis.

Budget: NA

Funding Source: NA

Timeline: Renewal of lease of new devices during spring of 2016. Distribution to staff prior to the beginning of the 2016-2017 school year.

Responsible Individual(s): Technology Director and District Administration

Accountability: Purchase and deployment report due to superintendent and administration prior to the beginning of the 2016-2017 school year.

Professional Development Focus Area: The Cook County School District 104 Technology Integration Plan ensures that all members of the educational community have access to sustained, on-going and targeted professional development focused on technology integration in order to fully realize their responsibilities and potential as contributors to the learning organization.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 1: Provide to all parents a series of strategic workshops designed to increase their basic technological literacy, increase their capacity to support the learning of their children and to create efficient means of communication between home and school.

Required Actions: Design and develop quarterly parent technology workshops to meet with program objectives including a review of basic technology literacy (computing, keyboarding, application and internet), an introduction to digital curriculum products (Think Central, MyNgConnect, MyOn, etc.) and establishing communication through email, social media and the district's local student information system (PowerSchool).

Budget: 4 Workshops at the district-level during the 2016-2017 school year (\$200 for materials/meeting, \$500 for staff stipends/per meeting = \$2,800)

Funding Source: Title Grants (Title I, Title III)

Timeline: 4 meetings held quarterly beginning in the 2016-2017 school year and in each subsequent year.

Responsible Individual(s): Professional Development Committee and District Administration

Accountability: Presentation of presentation outline to committee and administration as well as post-participation feedback survey results.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 2: Develop a professional development strand for all staff (differentiated by stakeholder) in order to increase capacity in utilization and deployment of technology.

Cook County School District 104 – Technology Integration Plan

Budget: \$5,000 for purchased services in on-site, professional development during district sponsored professional development programming. \$2,000 for substitute teachers to cover staff conducting site visits and peer observations.

Funding Source: Title Grants (Title I, Title II, Title III)

Timeline: Professional development to be comprised of various activities on-going throughout the 2016-2017 school year. Each professional institute day will include a focus on educational technology. Targeted 1:1 implementation cohort will also have access to external and on-site workshops as well as participate in a specific Tech Professional Learning Community.

Responsible Individual(s): Professional Development Committee and District Administration

Accountability: Comprehensive professional development plan to be formulated and delivered to the administration and board of education for review in August of 2016.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 3: Provide to all Mathematics instructional staff at the middle school an intensive and ongoing professional development program to guide implementation of new math curriculum.

Required Actions: Host a week-long professional development institute for all Mathematics instructional staff focused on curriculum, instruction and assessment. Integrate ongoing professional development opportunities for reflection on use of new Math series including integration of technology components of new Math curriculum.

Budget: Purchase professional development activities provided by Carnegie Learning (\$5,000). Stipends for participating staff during the summer of 2016 (\$3,000).

Funding Source: Title Grants (Title I, Title II)

Timeline: Week-long institute to be held during August of 2016. Quarterly meetings to be held to discuss Mathematics curriculum integration.

Responsible Individual(s): Curriculum Department and Heritage Middle School Administration

Accountability: Professional development plan due to superintendent and middle school administration prior to the beginning of the 2016-2017 school year.

Digital Citizenship Focus Area: The Cook County School District 104 Technology Integration Plan ensures that all members of the educational community join in active participation in a global, digital citizenry in order to reflect upon and confront the challenges of the 21st century.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 1: Development of a clear and consistent definition of Digital Citizenship suitable for publication for all stakeholders.

Required Actions: Review of current literature and resources defining digital citizenship. Publication of district-defined definition of digital citizenship by stakeholder including expectations, behaviors and resources.

Budget: \$500 (Stipends for committee work)

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Funding Source: Title I (\$500)

Timeline: Research conducted during the fall of 2015. Publication of Digital Citizenship standards and expectations for review in January of 2016. Full publication and adoption for the 2016-2017 school year.

Accountability: Presentation of research to the committee, board and administration in Fall of 2015. Presentation to internal stakeholders for review in Winter of 2016. Presentation and formal adoption in the summer of 2016 for publication in 2016-2017.

Leadership and Infrastructure Focus Area: The Cook County School District 104 Technology Integration Plan ensures a strategic integration of technology into all facets of its work in order to create and support diverse opportunities for organizational growth, learning as well as the development of technological leadership to meet the demands of a changing workforce.

The Cook County School District 104 Technology Plan ensures a fiscally responsible leadership structure empowered to make critical decisions in order to support the district's mission and vision.

SMART Goals are Strategic & Specific, Measurable, Attainable, Results Oriented and Time-Based

Strategic Action Item 1: Provision of resources to manage databases across district systems.

Required Actions: Create a 1.0 FTE Database Technician position to manage data migration across multiple district-level systems including PowerSchool, SIS, MAP, STAR, MyNgConnect, MyOn, etc.

Budget: \$30,000

Funding Source: Local Funds

Timeline: Approval of position and candidate screening in the spring of 2016. Hiring of qualified candidate for July 1, 2016 start date.

Responsible Individual(s): Technology Director and District Administration

Accountability: Staffing report due to superintendent by summer of 2016.